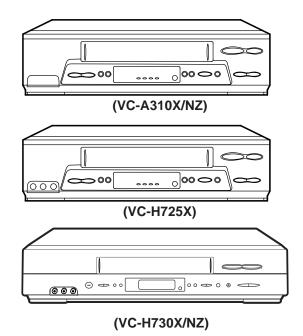
SHARP SERVICE MANUAL

S72N5VC-A310X



VHS VIDEO CASSETTE RECORDER

VC-A310X/NZ VC-H725X VC-H730X/NZ

MODELS

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified be used.

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PRECAUTIONS IN PART REPLACEMENT

When servicing the unit with power on, be careful to the section marked white all over.

This is the primary power circuit which is live.

When checking the soldering side in the tape travel mode, make sure first that the tape has been loaded and then turn over the PWB with due care to the primary power circuit.

Make readjustment, if needed after replacement of part, with the mechanism and its PWB in position in the main frame.

(1) Start and end sensors: Q701 and Q702

Insert the sensor's projection deep into the upper hole of the holder. Referring to the PWB, fix the sensors tight enough.

(2) Photocoupler: IC901 and IC902

Refer to the symbol on the PWB and the anode marking of the part.

(3) Cam switches A and B: S704.

Adjust the notch of the part to the white marker of the symbol on the PWB. Do not allow any looseness.

(4) Take-up and supply sensors: D706 and D707.

Be careful not to confuse the setting direction of the parts in reference to the symbols on the PWB. Do not allow any looseness.

1. SPECIFICATIONS

Format: VHS PAL/NTSC standard

Video recording system: Rotary, slant azimuth two heads helical scan system

Video signal: PAL colour or monochrome (CCiR system B/G) signals Recording/playing time: 240 min max. with SHARP E-240 tape (PAL: SP mode)

480 min max. with SHARP E-240 tape (PAL: LP mode)
720 min max. with SHARP E-240 tape (PAL: EP mode)
160 min max. with SHARP T-160 tape (NTSC: SP mode)
480 min max. with SHARP T-160 tape (NTSC: EP mode)

Tape width: 12.7mm

Tape speed: 23.39 mm/s (PAL: SP mode)

11.70 mm/s (PAL: LP mode) 7.8 mm/s (PAL: EP mode) 33.35 mm/s (NTSC: SP mode) 16.67 mm/s (NTSC: LP mode) 11.12mm/s (NTSC: EP mode)

Antenna: 75 ohm unbalanced

Receiving channel: VHF Channel NZ1 - NZ11, UHF Channel E21 - E69 (for New Zealand)

VHF Channel AU0 - AU12, UHF Channel AU28 - AU69 (for Australia)

RF converter output signal: UHF Channel E21 - E69 Adjustable preset to E36 (for New Zealand)

UHF Channel AU28 - AU69 Adjustable preset to AU37 (for Australia)

Power requirement: AC230V ± 15%, 50Hz (for New Zealand)

AC240V ± 10%, 50Hz (for Australia)

Power consumption: Approx. 14W
Operating temperature: 5°C to 40°C
Storage temperature: -20°C to 55°C

Weight: Approx. 2.4 kg (VC-A310X/NZ,H725X)

Approx. 2.7 kg (VC-H730X/NZ)

Dimensions: 360 mm (W) x 229 mm (D) x 92 mm (H) (VC-A310X/NZ,H725X)

430 mm (W) x 227 mm (D) x 92 mm (H) (VC-H730X/NZ)

VIDEO

Input: 1.0 Vp-p, 75 ohm Output: 1.0 Vp-p, 75 ohm S/N ratio: 45dB min (PAL-SP)

Horizontal resolution: 250 lines min (PAL-SP)

AUDIO 0 dBs = 0.775 Vrms Input: Line 1:-8 dBs/47k ohm

Input: Line 2:-8 dBs/47k ohm (VC-H725X, H730X/NZ)

Output: Line -8 dBs/1k ohm

S/N ratio: 43dB min (SP mode) (VC-A310X/NZ, H725X)

45dB min (SP mode) (VC-H730X/NZ)

Frequency responce: 80 Hz ~ 10 kHz (SP mode)

80 Hz ~ 5 kHz (LP mode) 80 Hz ~ 3 kHz (EP mode)

Hi-Fi Dynamic Range: 85dB min Hi-Fi Wow and Flutter: 0.005% Max. Hi-Fi Frequency responce: 20Hz ~ 20kHz Hi-Fi Distortion: 0.5% Max.

Hi-Fi Distortion: 0.5% Max. Hi-Fi Crosstalk: 55 dB min

Accessories included: 75 ohm coaxial cable

Operation manual Infrared remote control

Battery

As part of our policy of continuous improvement, we reserve the right to alter design and specifications without notice.

Note: The antenna must correspond to the new standard DIN 45325

(IEC 169 - 2) for combined UHF/VHF antenna with 75 ohm connector.

2. DISASSEMBLY AND REASSEMBLY

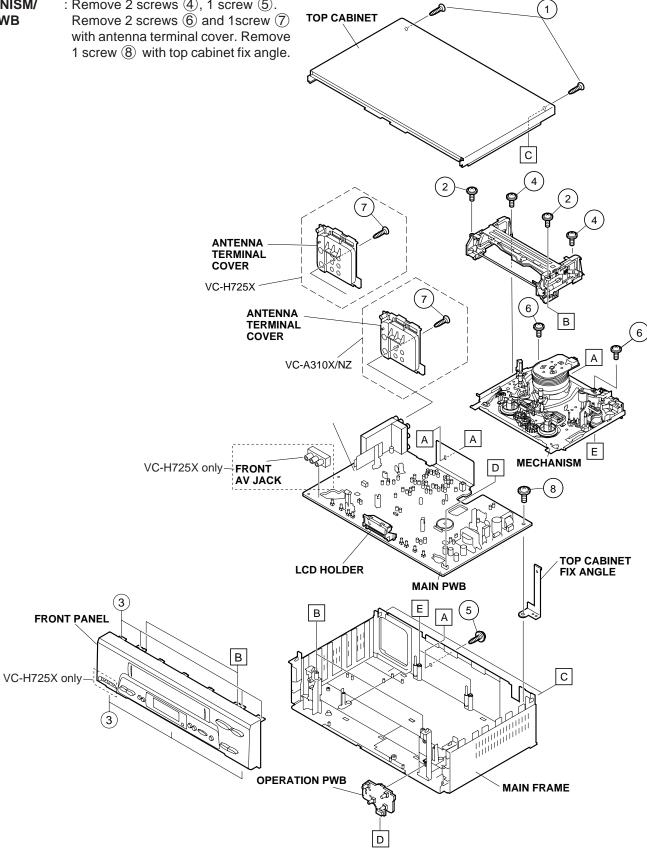
2-1 DISASSEMBLY OF MAJOR BLOCKS

(VC-A310X/NZ, H725X)

: Remove 2 screws (1). TOP CABINET

FRONT PANEL : Remove 2 screws ② and 7 clips ③. : Remove 2 screws (4), 1 screw (5). MECHANISM/ **MAIN PWB**

with antenna terminal cover. Remove



(VC-H730X/NZ)

TOP CABINET

: Remove 2 screws ①.

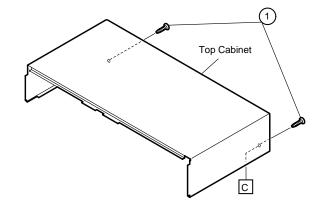
FRONT PANEL MECHANISM/ MAIN PWB

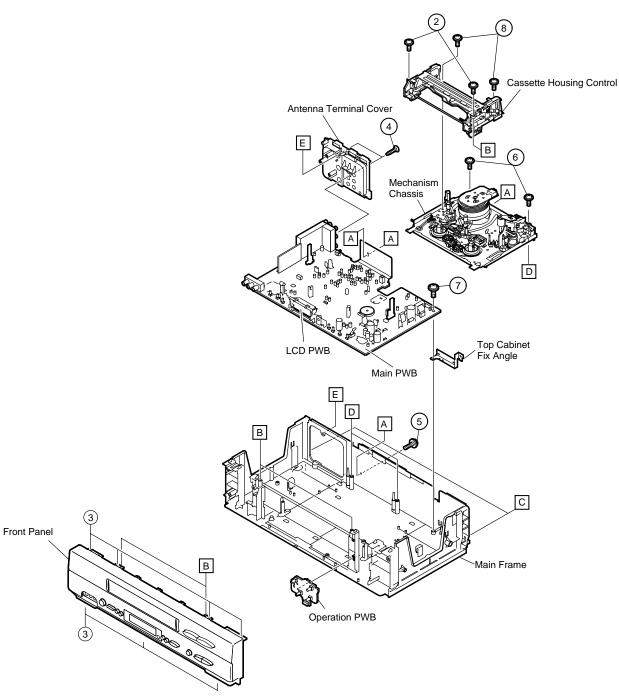
: Remove 2 screws ② and 7 clips ③. : Remove 2 screws ④, 1 screw ⑤,

and antenna terminal cover. Remove 2 screws (6) and mechanism chassis. Remove 1 screw (7) and top cabinet

fix angle.

CASSETTE HOUSING CONTROL : Remove 2 screws 8.





2-3 CARES WHEN REASSEMBLING

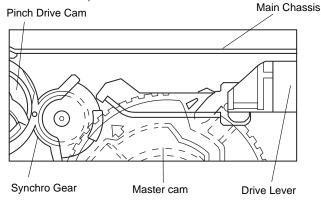
INSTALLING THE CASSETTE HOUSING

When the cassette housing is installed on the mechanism, the initial setting is essential condition.

There are two initial setting methods, namely electrical and mechanical.

1. Electrical initial setting

So as to perform initial setting of mechanism execute the Step 1 of Installation of cassette housing. After ascertaining the return to the initial setting position install the cassette housing. (Conditions: When mechanism and PWB have been installed)



2. Mechanical initial setting

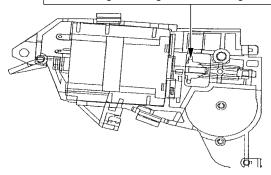
 Rotate the worm gear by pushing the flange manually until return to initial position. Rotate the flange of worm gear by using thin stick.

CW • • • Loading direction

CCW • • • Ejection direction

Note:

Be careful not to damage the gear of worm gear and worm wheel gear. It miight cause a strange sound.



- When apply power supply to rotate the loading motor, please remove/unsolder at least one terminal wire.
- If voltage applied to loading motor without diconnecting the terminal wire, there is a possibility the capstan motor IC will damage.
- The maximum applied voltage is 9V. If more than 9V, there is apossibility the mechanism will damage.
- After ascertaining the return to the initial set position install the cassette housing in the specified position. (This method is applied only for the mechanism.)

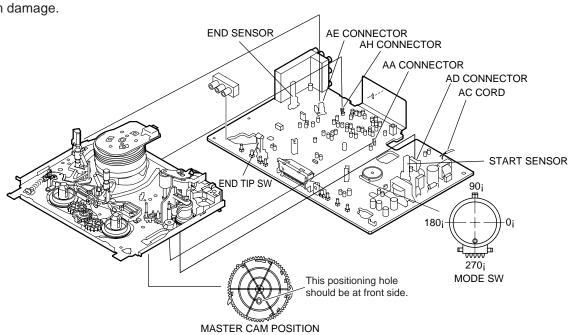
INSTALLING THE MECHANISM ON PWB

Lower vertically the mechanism, paying attention to the mechanism edge mode SW position, (Set the mode SW position to 270° and make sure the master cam position hole also in 270° position) and install the mechanism with due care so that the parts are not damaged.

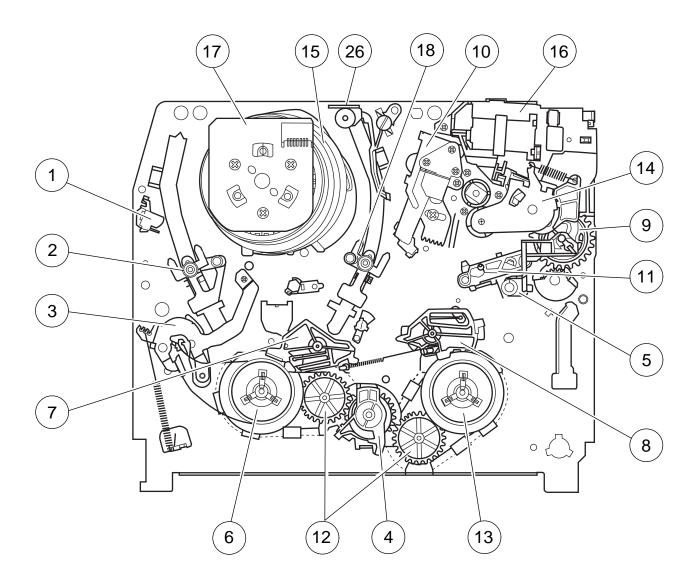
* Please make sure to insert correctly. If not, strange moving will occur and will couse mechanism damage.

PARTS WHICH NEED PARTICULAR CARE

When installing the mechanism chassis on the PWB unit, take care so as to prevent deformation due to contact of mechanism chassis with REC TIP SW.

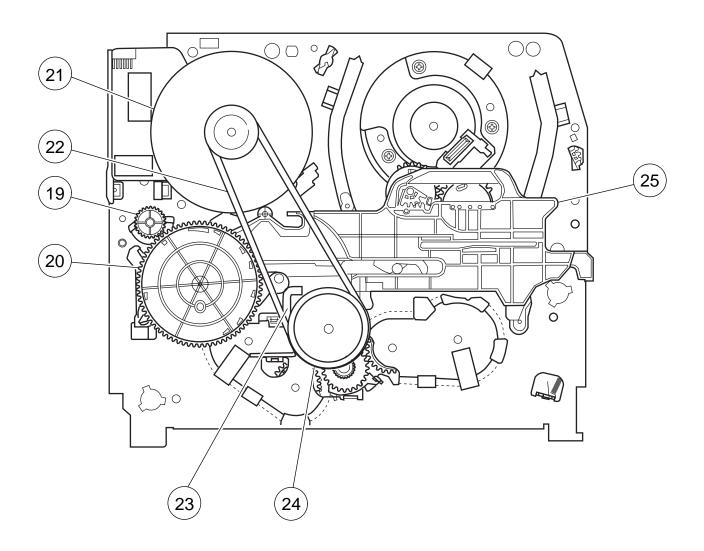


3. FUNCTION OF MAJOR MECHANICAL PARTS (TOP VIEW)



No.	Function	No.	Function
1	Full erase head	11	Reverse guide lever ass'y
2	Supply pole base ass'y	12	Reel relay gear
3	Tension arm	13	Take-up reel disk
4	Idler wheel ass'y	14	Pinch roller lever ass'y
5	Open guide	15	Drum ass'y
6	Supply reel disk	16	Loading motor block
7	Supply main brake	17	Drum driver motor
8	Take-up main brake	18	Take-up pole base ass'y
9	Pinch drive cam	26	Auto head cleaner Ass'y
10	A/C head ass'y		

FUNCTION OF MAJOR MECHANICAL PARTS (BOTTOM VIEW)



No.	Function	No.	Function
19	Syncro Gear	23	Clutch lever
20	Master cam	24	Limiter pulley ass'y
21	Capstan D.D. motor	25	Shifter
22	Reel belt		

4. ADJUSTMENT, REPLACEMENT AND ASSEMBLY OF MECHANICAL UNITS

The explanation given below relates to the on-site general service (field service) but it does not relates to the adjustment and replacement which need high-grade equipment, jigs and skill. For example, the drum assembling, replacement and adjustment service must be performed by the person who have finished the technical courses.

4-1 MECHANISM CONFIRMATION ADJUSTMENT JIG

So as to perform completely the mechanism adjustment prepare the following special jigs. So as to maintain the initial performance of the machine the maintenance and check are necessary. Utmost care must be taken so that the tape is not damaged. If adjustment needs any jig, be sure to use the required jig.

		I			T
No.	Jig Item	Part No.	Code	Configuration	Remarks
1.	Torque Cassette Meter	JiGVHT-063	CZ		This cassette torque meter is used for checking and adjusting the torque of take-up for measuring tape back tension.
2.	Torque Gauge	JiGTG0090	СМ		
۷.	Torque Gauge	JiGTG1200	CN		These Jigs are used for checking and adjusting the torque of take-up
3.	Torque Gauge Head	JiGTH0006	AW		and supply reel disks.
4.	Torque Driver	JiGTD1200	СВ		When fixing any part to the threaded hole using resin with screw, use the jig. (Specified torque 5 kg)
	Master Plane Jig and	JiGRH0002	BR	Q	These Jigs are used for checking
5.	Reel Disk Height Adjusting Jig	JiGMP0001	BY	6.0	and adjusting the reel disk height.
	T	JiGSG2000	BS		There are two gauges used for the
6.	Tension Gauge	JiGSG0300	BF		tension measurements, 300 g and 2.0 kg.
7.	Pinch pressing force measuring jig	JiGADP003	BK	(B)	This Jig is used with the tension gauge. Rotary transformer clearance adjusting jig.
					These tapes are especially used for electrical fine adjustment.
					Video Audio HiFi Audio Track
8.	Alignment Tape	VROCPSV	СК		625 Monoscope 7k — 49 μm PAL Colour Bar 1k — 49 μm
9.	Guide roller height adjustment driver	JiGDRiVERH-4	AP		This screwdriver is used for adjusting the guide roller height.
10.	X value adjustment gear driver	JiGDRiVER-6	ВМ		For X value adjustment
11.	Tension Pole Adjustment Driver	JiGHMEC-M005			This Jig is used for adjustment of tension pole.

video head.

and down the cleaning paper. • Whenever the video head is cleaned,

4-2 MAINTENANCE CHECK ITEMS AND EXECUTION TIME

Perform the maintenance with the Maintained	500	1	1500			Remarks
Parts	hrs.	hrs.	hrs.	hrs.	encountered	
Guide roller ass'y						Abnormal rotation or significant vibration requires replacement.
Sup guide shaft					Lateral noises Head	
Reverse guide					occasionally blocked	Clean tape contact part with the specified cleaning liquid.
Slant pole on pole base						
Full erase head				0	Colour and beating	
A/C head				0	Small sound or sound distortion	
Upper and lower drum ass'y		0	0	0	Poor S/N ratio, no colour Poor flatness of the envelope with alignment tape	Clean tape contact area with the specified cleaning liquid.
Capstan D.D. motor					No tape running, uneven colour	
Pinch roller					No tape running, tape slack	Clean rubber and rubber contact
Reel belt				0	No tape running, tape slack, no fast forward/ rewind motion	area with the specified cleaning liquid.
Tension band ass'y				0	Screen swaying	
Loading motor				0	Cassette not loaded or unloaded	
Idler ass'y				0	No tape running, tape slack	
Limiter pulley						
Supply/take-up main brake levers				0	Tape slack	
NOTE ○: Part replacement. □: Cleaning △: Apply grease <specified> Cleaning liquid Industrial ethyl alcohol</specified>						
clean or replace parts.		unc au	justme	erit With	variable resistor. Check	parts. If any deviation is found,
 Video head cleaning procedur Apply one drop of cleaning li Gently press the cleaning partise passed to and fro 5 times Wipe with the dry cleaning polynomes: Use the commercially availab 	quid to per aga (do no aper.	ainst th t move	e vided the cl	head eaning	to fix your finger, and mov paper). Rotate to with one Gently press the cleaning the control of	g paper to
cleaning liquid. Since the video head may be damaged, do not move up and down the cleaning paper. Since the video head may be damaged, do not move up and down the cleaning paper.						

 Whenever the video head is cleaned, replace the clean- 			
ing paper.	Parts Code	Description	Code
 Do not apply this procedure for the parts other than the 	ZPAPRA56-001E	Cleaning Paper	AW
video head.	70il R-02-24TF	Babe Oiler (Spoit)	AH

4-3 REMOVING AND INSTALLING THE CAS-SETTE HOUSING

Removal

- 1. In the cassette removing mode, remove the cassette.
- 2. Unplug the power cord.
- 3. Remove in the following numerical order.
 - a) Remove two screws (1).
 - b) Pull and circle the drive lever and pull up the cassette housing control.

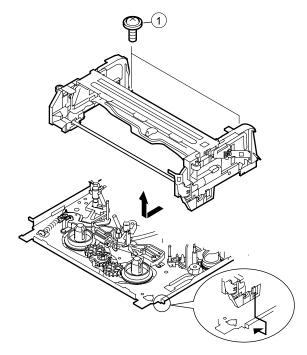


Figure 4-1.

Reassembly

 Before installing the cassette housing control, short-circuit between TP803 and TP802 provided at main PWB, press the eject button. The master cam turns and stop in eject position. Fit the drive lever to master cam through main chassis, push down and slide the drive lever towards to master cam.

*Eject position: Pinch Drive Cam positioning hole parallel to center of Synchro Gear (Synchro gear marking line). Synchro Gear positioning mark parallel to center of master cam.

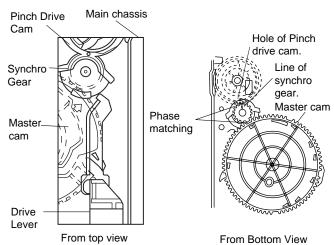


Figure 4-2.

2. Install in the reverse order of removal.

Notes

- In the case when you use the magnet screw driver, never approach the magnet driver to the A/C head, FE head, and drum.
- 2. When installing or removing, take care so that the cassette housing control and tool do not contact the guide pin or drum.
- 3. After installing the cassette housing control once perform cassette loading operation.

4-4 TO RUN A TAPE WITHOUT THE CASSETTE HOUSING CONTROL ASSEMBLY

- 1. Remove the full-surface panel.
- 2. Short-circuit between TP803 and TP802.
- 3. Plug in the power cord.
- Turn off the power switch. (The pole bases move into U.L.position.)
- 5. Open the lid of a cassette tape by hand.
- 6. Hold the lid with two pieces of vinyl tape.
- 7. Set the cassette tape in the mechanism chassis.
- 8. Stabilize the cassette tape with a weight (500g) to prevent floating.

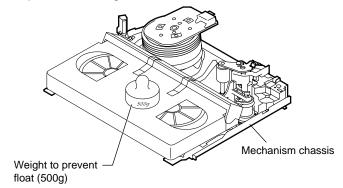


Figure 4-3.

- 9. Turn on the power switch.
- 10. Perform running test.

Note:

The weight should not be more than 500g.

To take out the cassette tape.

- 1. Turn off the power switch.
- 2. Take out the cassette tape.

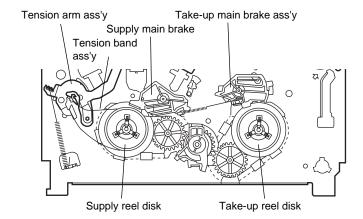
4-5 REEL DISK REPLACEMENT AND HEIGHT CHECK

Removal

- 1. Remove the cassette housing control assembly.
- 2. Remove the Supply/Take-up main brake ass'y.
- 3. Remove tension band from the tension arm ass'y.
- 4. Remove the reel disk.

Note:

Take care so that the tension band ass'y and main brake ass'y are not deformed.



Reassembly (Supply reel disk)

- Clean the reel disk shaft and apply grease (SC-141) to it.
- 2. Match the phases of reel disk and reel relay gear, and set the new reel disk.
- After checking the reel disk height, wind the tension band ass'y around the reel disk, and hook to tension arm ass'y.
- 4. Assemble the Supply main brake ass'y.

Notes:

- 1. When installing the reel disk, take due care so that the tension band ass'y is not deformed and grease does no adhere.
- 2. Do not damage the Supply main brake ass'y. Be careful so that grease does not adhere to the brake surface.

Reassembly (Take-up reel disk)

- 1. Clean the reel disk shaft and apply grease (SC-141) to it.
- 2. Align the phase of the reel disk to that of the reel relay gear and to install a new take-up reel disk onto the shaft.
- 3. Check the reel disk height and reassemble the take-up main brake ass'y.

Note:

- 1. Take care so that the Take-up main brake ass'y is not damaged. Take care so that grease does not adhere the brake surface.
- After reassembly, check the video search rewind back tension (see 4-10), and check the brake torque (see 4-14).

Height checking and adjustment Note:

- Set the master plane with due care so that it does not contact the drum.
- 2. When putting the master plane, shift the reverse guide a little in the loading direction. Care must be taken since excessive shift results in damage.

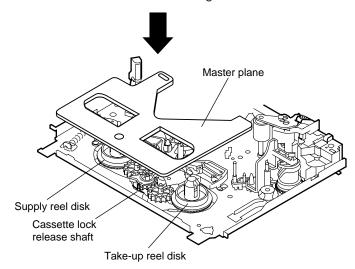


Figure 4-4.

Note:

 Check that the reel disk is lower than part A but higher than part B. If the height is not correct, readjust the reel disk height by changing the poly-slider washer under the reel disk.

Note:

Whenever replacing the reel disk, perform the height checking and adjustment.

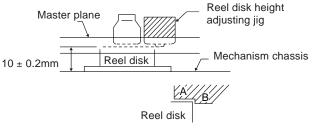


Figure 4-5.

4-6 CHECKING AND ADJUSTMENT OF TAKE-UP TORQUE IN FAST FORWARD MODE

- · Remove the cassette housing control assembly.
- After short-circuiting between TP803 and TP802 provided at main PWB, plug in the power cord.

Setting

- 1. Set a torque gauge to zero on the scale. Place it on the take-up reel disk.
- 2. Press the FF button.
- 3. To calculate the remaining capacity of the play back mode, slowly rotate the supply reel disk, and then shift it into the forward mode.

Checking

- 1. Turn the torque gauge slowly (one rotation every 2 to 3 seconds) by hand in the CW direction.
- 2. Make sure that the indication of torque gauge is not less than 30mN·m (306gf·cm).

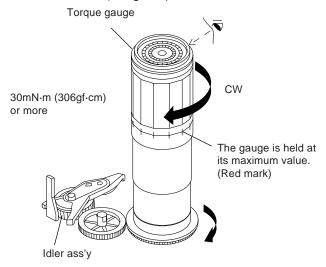


Figure 4-6.

Adjustment

- 1. If the FF winding-up torque is less than the specified value, clean the capstan D.D. pulley, reel belt, and limiter pulley with cleaning liquid, and check again.
- 2. If the torque is less than the set value, replace the reel belt.

Notes:

- 1. Hold the torque gauge by hand so that it is not moved.
- 2. Do not keep the reel disk in lock state. Do not allow long-time measurement.

4-7 CHECKING AND ADJUSTMENT OF TAKE-UP TORQUE IN REWIND MODE

- Remove the cassette housing control assembly.
- After short-circuiting between TP803 and TP802 provided at main PWB, plug in the power cord.

Setting

- 1. Set a torque gauge to zero on the scale. Place it on the supply reel disk.
- 2. Press the rewind button.
- 3. To calculate the remaining capacity, slowly rotate the take-up reel disk, and then shift it into the rewind mode.

Checking

- 1. Turn the torque gauge slowly (one rotation every 2 to 3 seconds) by hand in the CCW direction.
- 2. Make sure that the indication of torque gauge is not less than 30mN·m (306gf·cm).

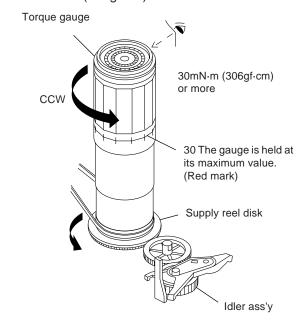


Figure 4-7.

Adjustment

- If the rewind winding-up torque is less than the specified value, clean the capstan D.D. pulley, reel belt, and limiter pulley with cleaning liquid, rewind again, and check the winding-up torque.
- 2. If the winding-up torque is still out of range, replace the drive belt.

Notes:

- 1. Hold the torque gauge by hand so that it is not moved.
- Do not keep the reel disk in lock state. Do not allow longtime measurement.

4-8 CHECKING AND ADJUSTMENT OF TAKE-UP TORQUE IN RECORD/PLAYBACK MODE

- · Remove the cassette housing control assembly.
- After short-circuiting between TP803 and TP802 provided at main PWB, plug in the power cord.
- · Turn off the power switch.
- Open the cassette torque meter lid, and fix it with tape.
- Load the cassette torque meter into the unit.
- Put the weight (500g) on the cassette torque meter.
- Turn on the power switch.
- Press the picture record button, and set LP picture record mode (x2).

Set value LP 6.9 +2.0 mN·m (70 +20 gf·cm)

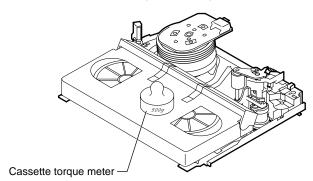


Figure 4-8.

Checking

- 1. Make sure that value is within the setting 6.9 ^{+2.0}_{-2.5} mN·m (70⁺²⁰_{-2.5} qf·cm).
- 2. The winding-up torque fluctuates due to variation of rotation torque of limiter pulley ass'y. Read the center value of fluctuation as setting.
- 3. Set the LP record mode (x2) and make sure that the winding-up torque is within setting.

Adjustment

If the playback winding-up torque is not within the setting, replace the limiter pulley assembly.

Note:

When the torque cassette is set, put a weight (500g) to prevent rise.

When the cassette torque meter is taken out.

Turn off the power switch.

4-9 CHECKING AND ADJUSTMENT OF TAKE-UP TORQUE IN VIDEO SEARCH REWIND MODE

- · Remove the cassette housing control assembly.
- After short-circuiting between TP803 and TP802 provided at main PWB, plug in the power cord.

Setting

Press the playback button and rewind button to set the video search rewinding mode.

Checking

Place the torque gauge on the supply reel disk, and turn it counterclockwise very slowly (one rotation every 1 to 2 seconds) and check that the torque is within the set value $14.1 \pm 3.5 \text{mN} \cdot \text{m}$. ($144 \pm 35 \text{gf} \cdot \text{cm}$)

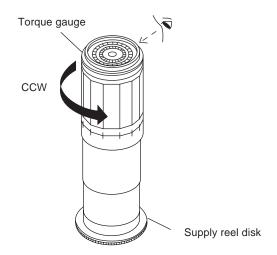


Figure 4-9.

Note:

Surely put the torque gauge on the reel disk to measure. If the torque gauge is raised, accurate measurement is impossible.

Adjustment

If the rewinding playback winding-up torque is not within the setting, replace the limiter pulley assembly.

Note:

The winding-up torque fluctuates due to variation of rotation torque of supply reel disk. Read the center value of fluctuation as setting.

4-10 CHECKING THE VIDEO SEARCH REWIND BACK TENSION

- Remove the cassette housing control assembly.
- After short-circuiting between TP803 and TP802 provided at main PWB, plug in the power cord.

Checking

- 1. After pressing the play button, press the rewind button, and set the video search rewind mode.
- Place the torque gauge on the take-up reel disk, and turn it counterclockwise very slowly (one rotation every 2 to 3 seconds) and check that the torque is within the set value 3.7 ± 1.5mN·m (38 ± 15gf·cm).

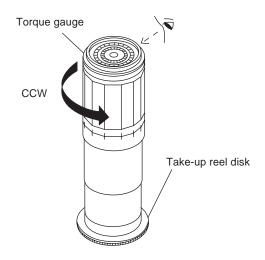


Figure 4-10.

Notes:

Set the torque gauge securely on the take-up reel disk. If it is not secure, the measurement will be incorrect.

4-11 CHECKING THE PINCH ROLLER PRESSURE

- * Checking can be perform with or without cassette housing control.
- Remove the cassette housing control assembly.
- After short-circuiting between TP803 and TP802 provided at main PWB, plug in the power cord.

Checking

Press the play button to set the playback mode.

- Detach the pinch roller from the capstan shaft.
 Do not separate excessively. Or the pinch lever and pinch double action lever may disengage.
- 2. Engage the tension gauge adapter with the pinch roller shaft, and pull in the arrow direction.
- 3. Gradually return the pinch roller, and measure the pulling force when the pinch roller contacts the capstan shaft.
- 4. Make sure that the measured value is within setting change to $9.8 \pm 2N$ ($1.0 \pm 0.2kgf$).

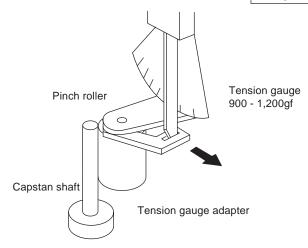


Figure 4-11.

4-12 CHECKING AND ADJUSTMENT OF TENSION POLE POSITION

- * Checking can be perform with or without cassette housing control.
- Remove the cassette housing control assembly.
- After short-circuiting between TP803 and TP802 provided at main PWB, plug in the power cord.
- Setting (without cassette housing control)
- 1. Turn off the power switch.
- 2. Open the cassette tape (E-180), and fix with tape.
- 3. Set the cassette tape in loading state.
- 4. Put the weight (500g) on the cassette tape.
- 5. Turn on the power switch.
- 6. Make the adjustment with the beginning of a E-180 tape.

Setting (with cassette housing control)

- 1. Insert cassette tape (E-180).
- 2. Make the adjustment with the beginning of a E-180 tape.

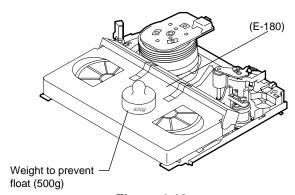
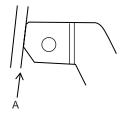


Figure 4-12.

Checking

- Set a cassette tape, push the REC button to place the unit in the SP record mode. Now check the tension pole position.
- $\overset{\cdot}{\text{U}}$. Visually check to see if the position of the tension pole is within the 0 $^+_{-0.2}^{0.5}$ mm from the left side line.

Standard A =
$$0^{+0.5}_{-0.2}$$
 mm



Make the adjustment with the beginning of a E-180 tape.

Figure 4-13.

At left side from the reference line. (A).

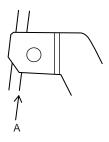


Figure 4-14.

Insert the tension pole adjustment driver to main chassis hole, and rotate clockwise.

At right side from the reference line. (A).

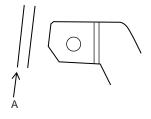


Figure 4-15.

Insert the tension pole adjustment driver to main chassis hole, and rotate counterclockwise.

Tension pole adjustment driver adjusting direction

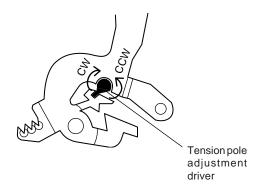


Figure 4-16.

4-13 CHECKING AND ADJUSTMENT OF RECORD/PLAYBACK BACK TENSION

- * Checking can be perform with or without cassette housing control.
- · Remove the cassette housing control assembly.
- After short-circuiting between TP803 and TP802 provided at main PWB, plug in the power cord.
- Setting (without cassette housing control)
- 1. Turn off the power switch.
- 2. Open the cassette torque meter and fix with tape.
- 3. Set the cassette torque meter in loading state.
- 4. Put the weight (500g) on the cassette torque meter.
- 5. Turn on the power switch.
- Setting (with cassette housing control)
- 1. Insert cassette torque meter.

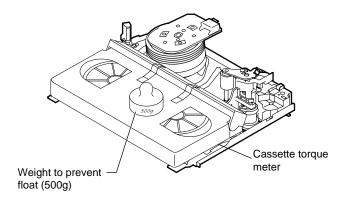


Figure 4-17.

Checking

- Push the REC button to place the unit in the SP record mode.
- 2. At this time ascertain that the back tension is within the setting 3.9 to 5.5mN·m (40 to 56gf·cm) by seeing the indication of torque cassette meter.

Adjustment

- 1. If the indication of torque cassette meter is lower than the setting, shift the tension spring engagement to the part A.
- 2. If the indication of torque cassette meter is higher than the setting, shift the tension spring engagement to the part B

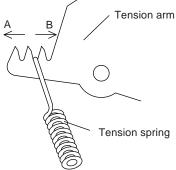


Figure 4-18.

4-14 CHECKING THE BRAKE TORQUE

· Checking the brake torque at the supply side

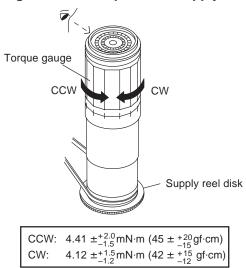


Figure 4-19.

- · Remove the cassette housing control assembly.
- After short-circuiting between TP803 and TP802 provided at main PWB, plug in the power cord.

Setting

- Set a torque gauge to zero on the scale. Place it on the supply reel disk.
- 2. Switch from the FF mode to the STOP mode.
- 3. Disconnect the power cord.
- Please check Idler gear not contact with reel relay gear (SU side)

Checking

Turn the torque gauge at a rate of about one turn/2 sec in the CW direction/CCW direction with respect to the supply reel disk so that the reel disk and torque gauge pointer rotate at equal speed, and make sure that the value is within the setting (CW direction: $4.12 \pm 1.5 \, \text{mN·m}$ ($42^{+1.5}_{-1.5} \, \text{f·cm}$); CCW direction: $4.4^{+2.0}_{-1.5} \, \, \text{mN·m}$ ($45^{+20}_{-1.5} \, \, \text{gf·cm}$).

· Checking the brake torque at the take-up side

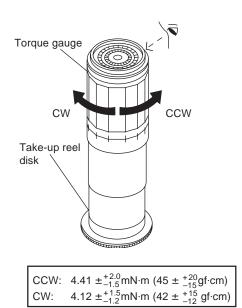


Figure 4-20.

- · Remove the cassette housing control assembly.
- After short-circuiting between TP803 and TP802 provided at main PWB, plug in the power cord.

Setting

- 1. Switch from the FF mode to the STOP mode.
- 2. Disconnect the power cord.
- 3. Set a torque gauge to zero on the scale. Place it on the take-up reel disk.
- 4. Please check Idler gear not contact with reel relay gear (TU side)

Checking

- Turn the torque gauge at a rate of about one turn/2 sec in the CCW direction/CW direction so that the reel disk and torque gauge pointer rotates at equal speed and make sure that the value is within the setting (CCW direction: 4.41 ^{+2.0}_{-1.5} mN·m (45 ⁺²⁰₋₁₅ gf·cm), CW direction: 4.12 ^{+1.5}_{-1.2} mN·m (42 ⁺¹⁵₋₁₂ gf·cm).
- 2. Adjustment of the brake torque at the supply side and the take-up side
- Unless the supply side brake torque or take-up side brake torque is within the setting, clean the felt surface of reel disk (supply, take-up) brake lever, check again the brake torque.
- If value cannot be set within the setting yet, replace the main brake ass'y or main brake spring.

4-15 REPLACEMENT OF A/C (AUDIO/CONTROL) HEAD

1. In eject position unplug the power cord.

Removal

- Take out FFC holder from main chassis. (Push 3 hooking point and pull-up the holder).
- 2. Remove the screws (1)(2)(3), Tilt screw.
- 3. Unsolder the PWB fitted to the A/C head.

Notes:

- 1. When replacing, never touch the head. If you touched, clean with the cleaning liquid.
- 2. When removing the screw ③, take care so that the spring may out.

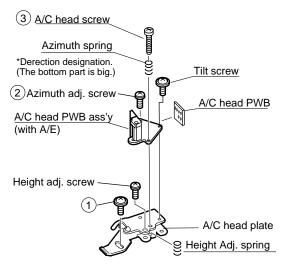


Figure 4-21.

Replacement

- 1. Solder the removed PWB to the new head assembly.
- Adjust the height from the A/C head arm (lower surface) to the A/C head plate to 10.8mm with slide calipers. (3 places of azimuth screw section, tilt screw section and A/ C head front section) (See the figure below.)

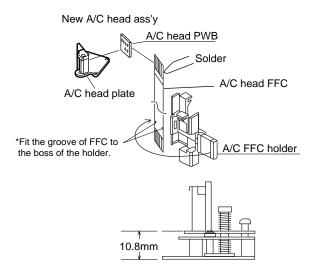


Figure 4-22.

3. Align the left end of gear of A/C head arm with the punched mark of chassis, tentatively tighten the screws ① so as to ensure smooth motion of A/C head arm. Tightening torque must be 0.45 ± 0.05N·m (4.5 ± 0.5kgf·cm).

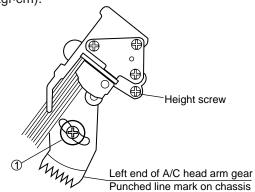


Figure 4-23.

Note:

AC Head

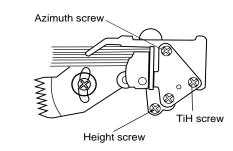
FFC

Holder

- 1. If the screw ① is tighten tentatively too loose, the azimuth and height of A/C head may change when they are finally tightened. Therefore care must be taken.
- 2. After completion of A/C head be sure to adjust tape running. (Execute the running adjustment by the method described in **4-17**.)

4-16 A/CHEAD HEIGHT ROUGH ADJUSTMENT

Setting



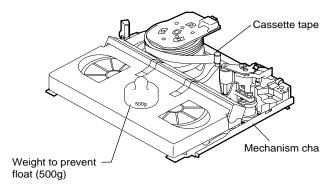


Figure 4-24.

- 1. Set the cassette tape in the unit.
- Press the PLAY button to put the unit in the playback mode.
- Roughly adjust the height of the A/C head by turning the height screw until the tape is in the position shown below.

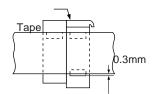


Figure 4-25.

Adjustment

Adjust the height screw visually so that the control head is visible 0.3mm below the bottom of the tape.

4-17 ADJUSTMENT OF TAPE DRIVE TRAIN

- 1. Tape run rough adjustment
 - ① Check and adjust the position of the tension pole. (See **4-12**.)
 - ② Check and adjust the video search rewind back tension. (See **4-10**.)
 - ③ Connect the oscilloscope to the test point for PB ATR signal output (TP201). Set the synchronism of the oscilloscope to EXT. The PB ATR signal is to be triggered by the head switching pulse (TP202).
 - 4 Set the alignment tape (VROCPSV) to play.

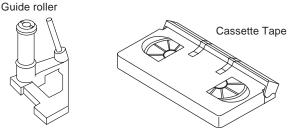


Figure 4-26.

- (5) Press the tracking button (+), (–) and change the ATR signal waveform from max to min and from min to max. At this time make sure that the ATR signal waveform changes nearly parallel.
- (6) Unless the ATR signal waveform changes nearly parallel, adjust the height of supply side and take-up side guide roller so that the envelope waveform changes nearly parallel. (For ATR signal adjustment procedure refer to Figure 4-30.)
- 7 Turn the tilt screw to remove the tape crease at the fixing guide flange.

Playback the tape and check for tape crease at the fixing guide flange.

- (1) If there is no tape crease

 Turn the tilt screw clockwise so that tape crease appears once at the flange, and then return the tilt screw so that the crease disappears.
- (2) If there is tape crease

Turn counterclockwise the tilt screw so that the tape crease disappears.

(Reference) If the tilt screw is turned clockwise crease appears at the lower flange.

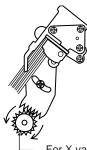
Notes:

- Previously set the tracking control in the center position, and adjust the ATR signal waveform to maximum with X value adjustment nut. Thereby the tape run rough adjustment is facilitated.
- 2. Especially the outlet side ATR signal waveform must have higher flatness.



Figure 4-27

- 2. Adjustment of A/C head height and azimuth
 - 1 Perform the initial setting of A/C head position by the method stated in "4-15 Replacement 3".
 - ② Connect the oscilloscope to the audio output terminal.
 - ③ Using the alignment tape in which 1 kHz linear audio signal has been recorded, adjust the height screw so as to get max audio output.
 - 4 Using the alignment tape in which 7 kHz linear audio signal has been recorded, adjust the azimuth screw so as to get max audio output.
 - (5) The adjustment of (3) and (4) twice or three times repeat, and finally adjust (4).



For X value adjustment Adjust the X value, turning the geartype screwdriver.

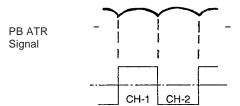
Figure 4-28.

- 3. Tape run adjustment
 - ① Connect the oscilloscope to PB ATR signal output test point, set oscilloscope sync to EXT, trigger-input the PB CHROMA signal (head switching pulse).
 - ② Rough adjustment of X value
 Tentatively fix A/C head arm screws ① by the method described in **4-15** " Replacement 3".

Playback the alignment tape (VROCPSV) and shortcircuit between TP801 and TP802. As a result the auto-tracking is automatically cancelled, so that the X value adjustment mode is set.

Move the A/C head with the X value adjustment gear driver (JiGDRiVER-6) by the method shown in Figure 4-33, and adjust the A/C head so as to get the maximum ATR signal waveform. (Note: When the A/C head is adjusted, adjust so that the maximum ATR signal waveform is obtained nearest the position of initial setting made in **4-15**.)

- ③ Next, press the tracking button (+), (-) and change the ATR signal waveform from max to min and from min to max. At this time adjust the height of supply and take-up side guide roller with the adjustment driver (JiGDRiVERH-4) so that the ATR signal waveform changes nearly parallel.
- ④ If the tape is lifted or sunk from the helical lead surface, the PB ATR signal waveform appears as shown in Figure 4-30.
- (5) Press the tracking button (+), (–) and make sure that the ATR signal waveform changes nearly parallel.
- 6 Finally, check tape crease near the reverse guide. If tape crease is found, adjust tilt screw 45° counter clockwise. Small tape crease will appear at retain guide after this adjustment finished.



Head switching pulse Figure 4-29.

- 4. A/C head X value adjustment
 - 1 Fix A/C head arm screws 1 by the method described in **4-15** " Replacement 3".
 - ② Playback the alignment tape (VROCPSV), and shortcircuit between TP801 and TP802. As a result the auto-tracking is automatically cancelled, so that the X value adjustment mode is set.

	When the tape is ab	ove the helical lead.	When the tape is below the helical lead.		
	Supply side	Take-up side	Supply side	Take-up side	
Adjustment	Supply side guide roller rotated in clockwise direction (lowers guide roller) to flatten ATR signal.	Take-up side guide roller rotated in clockwise direction (lowers guide roller) to flatten ATR signal.	Supply side guide roller rotated in counterclock-wise direction (raises guide roller) to make the tape float above the helical lead. The supply side guide roller is then rotated in the clockwise direction to flatten the ATR signal.	Take-up side guide roller rotated in counterclock-wise direction (raises guide roller) to make the tape float above the helical lead. The take-up side guide roller is then rotated in the clockwise direction to flatten the ATR signal.	

Figure 4-30.

- 3 Move the A/C head with the X value adjustment gear driver by the method shown in Figure 4-33, and adjust the A/C head so as to get the maximum ATR signal waveform. (Note: At this time adjust so as to get the maximum ATR signal waveform nearest the A/C head position which has been set in case of X value rough adjustment as stated in 4-17, 3- (2).)
- 4 Adjust the playback switching point (Refer to the electric adjustment method.)
- (5) Playback the self-picture-recorded tape, and check the flatness of ATR signal waveform and sound.

Notes:

When the A/C head X value adjustment is performed, be sure to perform at first X value rough adjustment (refer to 4-17, 3-2).

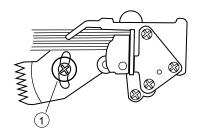


Figure 4-31.

4-18 REPLACEMENT OF THE CAPSTAN D.D. (DIRECT DRIVE) MOTOR

- · Remove the mechanism from the set.
- Removal (Follow the order of indicated numbers.)
- 1. Unsolder loading motor wire and drum FFC.
- 2. Remove the reel belt 1.
- 3. Remove the three screws (2).
- Reassembly

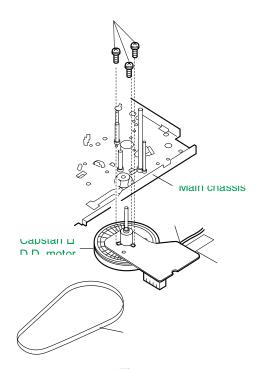


Figure 4-32.

- Taking care so that the capstan shaft does not contact the mechanism chassis, set its position on the mechanism chassis, and then install with the three screws.
- 2. Install the reel belt.
- 3. Solder loading motor wire and insert drum FFC.

Notes:

- 1. After installing the capstan D.D. motor, be sure to rotate the capstan D.D. motor and check the movement.
- Set the tape, and check for the tape crease near the reverse guide in the playback mode. Adjust the A/C head and azimuth as stated in 4-17 item 2.

4-19 REPLACEMENT OF DRUM D.D. MOTOR

- 1. Set the ejection mode.
- 2. Withdraw the main power plug from the socket.

• Removal (Perform in numerical order.)

- 1. Disconnect the FFC cable ①.
- 2. Unscrew the D.D. stator assembly fixing screws ②.
- 3. Take out the D.D. stator assembly (3).
- 4. Unscrew the D.D. rotor assembly fixing screws (4).
- 5. Take out the D.D. rotor assembly (5).

Notes:

- In removing the D.D. stator assembly, part of the drum earth spring pops out of the pre-load collar. Be careful not to lose it.
- Install, so that the D.D. rotor ass'y and upper drum ass'y mounting direction check holes align. (Align the upper drum dent with the rotor hole.)
- 3. Be careful not to damage the upper drum or the video head.
- 4. Protect the hole elements from shock due to contact with D.D. stator or D.D. rotor ass'y.
- 5. After installation adjust the playback switching point for adjustment of servo circuit.

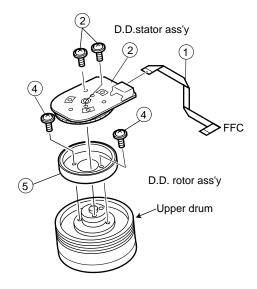


Figure 4-33.

4-20 REPLACING THE UPPER AND LOWER DRUM ASSEMBLY

- Replacement (Perform in the numerical order)
- 1 Remove the motor as stated in **4-19** D.D. motor replacement.
- ② Remove the drum earth brush ass'y ②.
- (3) Remove the upper and lower drum assembly from main chassis (1).
- 4 Remove the drum FFC holder 3.

[Cares when replacing the drum]

- 1. Be careful so that the drum earth brush is not lost.
- 2. Do not touch directly the drum surface.
- 3. Fit gently the screwdriver to the screws.
- 4. Since the drum assembly is an extremely precise assembly, it must be handled with utmost care.
- 5. Make sure that the drum surface is free from dust, dirt and foreign substances.
- 6. After replacing the drum be sure to perform the tape running adjustment.

After that, perform also the electrical adjustment.

- · Playback switching point adjustment
- X-position adjustment and check
- Standard and x-3 slow tracking adjustment
- 7. After replacing the drum clean the drum.

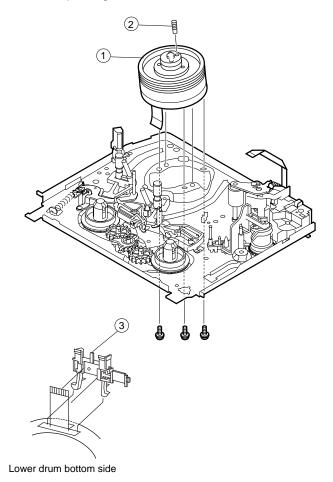


Figure 4-34.

4-21 ASSEMBLING OF PHASE MATCHING MECHANISM COMPONENTS

- Assemble the phase matching mechanism components in the following order.
- 1. Assemble the reverse guide lever and pinch drive cam.
- 2. Mounting the shifter (on the back of the mechanism chassis).
- 3. Mounting the master cam (on the back of the mechanism chassis).
- 4. Assemble synchro gear.
- 5. Assemble the loading motor parts.

PINCH DRIVE CAM AND REVERSE GUIDE LEVER ASSEMBLING METHOD.

(Place the following parts in position in numerical order.)

- (1) Pinch drive cam (1)
- (2) Reverse guide spring (2)
- (3) Reverse guide lever ass'y ③
- (4)Open guide 4

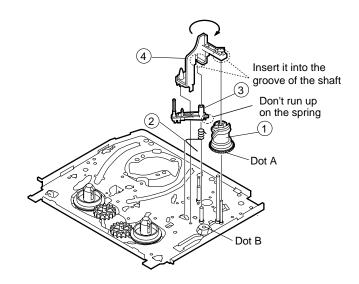
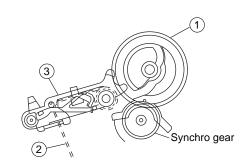
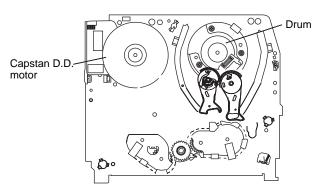


Figure 4-35.



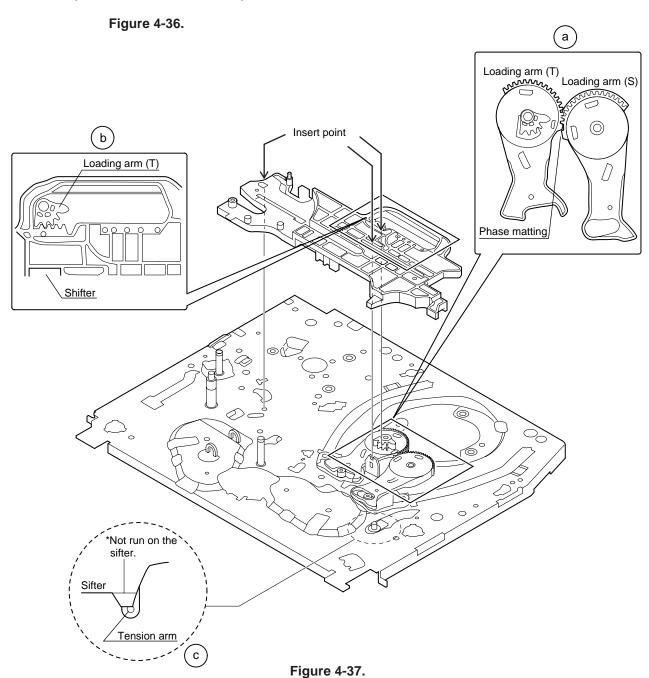
From Top View

4-22 INSTALLING THE SHIFTER



(Bottom side of mechanism chassis)

- 1. Make sure that the loading arm T and S are at the Phase-Matching point as shown below (a).
- 2. Fix the shifter position setting part to the roading arm T position setting part as shown in figure (b)
- 3. Make sure tension arm not run on the shifter as shown in figure ©.



4-23 INSTALLING THE MASTER CAM (AT REAR SIDE OF MECHANISM CHASSIS)

- 1. Make sure beforehand that the shifter is at initial position. (Right side from bottom view)
- 2. Place the master cam in the position as shown below.
- 3. Fix the E ring.

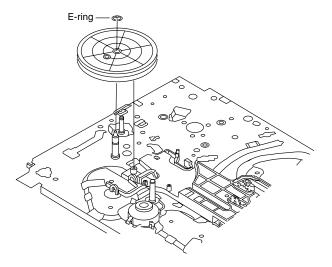


Figure 4-38-1.

4. Adjust the master cam and pinch drive cam, fix the synchro gear in correct position.

Note:

See the figure below for the phase matching between the master cam synchro gear and pinch drive cam.

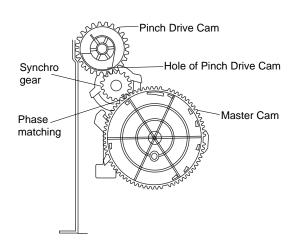


Figure 4-38-2.

4-24 REPLACEMENT OF LOADING MOTOR

Removal

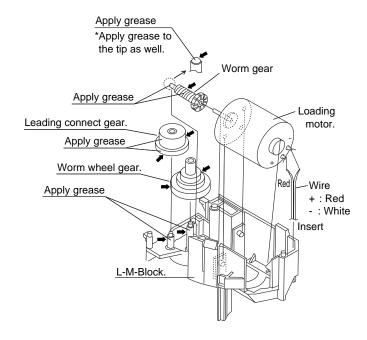


Figure 4-39.

Replacement

Remove the loading motor, and install the replacement loading motor as shown below.

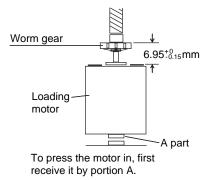


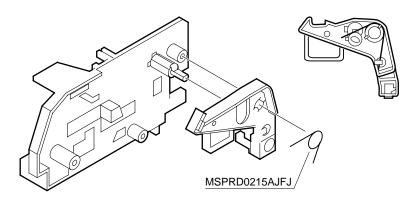
Figure 4-40.

The loading motor pressing-in must be less than 196N (20 kgf).

Adjust the distance between motor and pulley to 6.95 $^{+0}_{-0.15}$ mm.

4-25 ASSEMBLY OF CASSETTE HOUSING

1. Proof lever Proof lever spring and Holder R



*Proof lever spring fixing direction designated.

Figure 4-41.

2. Open lever, Sensor Plate and Frame R

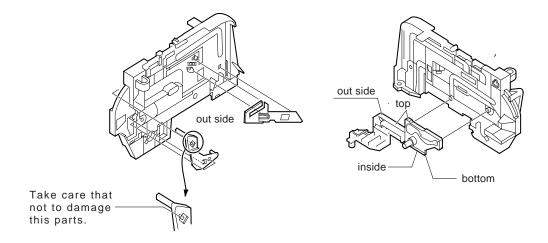


Figure 4-42.

3. Spring to Drive Arm R

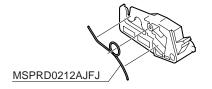


Figure 4-43.

4 Frame R, Frame L, Drive Arm R, Drive Arm L, Upper Plate.

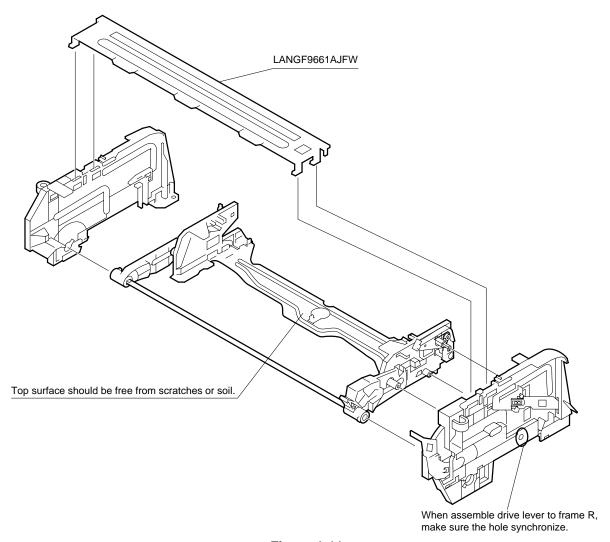


Figure 4-44.

5. ELECTRICAL ADJUSTMENT

Notes:

• Before the adjustment:

Electrical adjustments discussed here are often required after replacement of electronic components and mechanical parts such as video heads.

Check that the mechanism and all electric components are in good working condition prior to the adjustments, otherwise adjustments can not be completed.

• Instruments required:

- OColour TV monitor
- O Dual-trace oscilloscope
- OBlank video cassette tape
- ODC voltmeter
- O Screwdriver for adjustment

Servicing precautions

When the IC710 (E²PROM) has been replaced, make the following reprogramming. Depending on models, the IC710 (E²PROM) has been factory-adjusted for it's memory function.

It's therefore necessary to reprogram the memory function for the model in question.

Note that the servo circuit requires readjustments for the head switching point, slow and still modes.

· Location of controls and test points

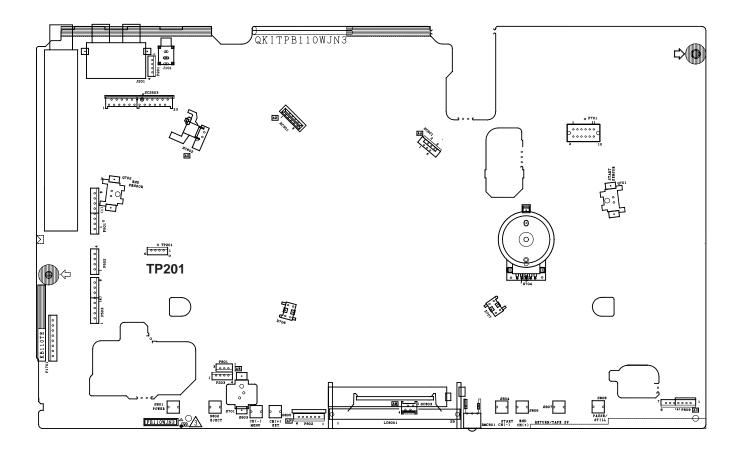


Figure 5-1.

SERVO CIRCUIT ADJUSTMENT

ADJUSTMENT OF HEAD SWITCHING POINT

Measuring instrument	Dual-trace oscilloscope Colour TV monitor
Mode	Playback
Cassette	Alignment tape (VROFBZD)
Test point	Pin(2) of TP201 (H.SW.P.) to CH- 1, VIDEO OUT jack to CH-2 (CH-1 trigger slope switch at (+), Internal trigger at CH-1 side.)
Specification	6.5 ± 0.5H (lines)

- Remove the front panel and play the alignment tape. (VROFBZD)
- Get TP801 short circuited or press " TEST" key (47H) at universal remote control to call the Test Mode. (LCD will blinking as tracking goes to center)
- Press " PLAY" .
 Auto PG Mode will be ON and playback mark " ▶ " blinking.
- 4. Press "STOP".
 - " > " blinking stops and auto adjustment finished.
- 5. Check that V-Sync is $6.5 \pm 0.5 H$ and the waveform is as shown in Figure 5-2.

Note:

For manual PG adjustment, press FF or REW at the Test Mode to set the tracking in center.

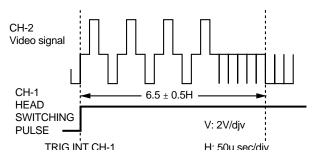


Figure 5-2.

ADJUSTMENT OF PAL SYSTEM SP/LP/EP SLOW TRACKING PRESET

Measuring instrument	Colour TV monitor
Mode	Playback
Cassette	Self-recorded tape (SP/LP/EP mode)(See Note below)
Control	Tracking control buttons (▲) or (▼)
Specification	Minimized noise on monitor screen

- 1. Have the unit to receive a good TV broadcast or feed a video signal to the VIDEO IN jack. (See note ② below)
- 2. Set the tape speed in SP mode by using the remote control and record the signal on tape.
- 3. Rewind and play the tape where signal was recorded in above step.
- 4. Press the SLOW button on the remote control, and playback the recorded portion in the slow mode.
- 5. Make for a moment short-circuit TP801, located at the front side on the main PWB.
 - Be sure that all the LCD display light up when press the TEST mode.
- 6. Look at the monitor screen and adjust the (▲) or (▼) TRACKING buttons until there is minimum or no noise appear on the screen.
- 7. Press the STOP button to return to normal mode.
- 8. Play the tape a few seconds then press the SLOW button again and make sure there is minimum or no noise on the screen. (For the LP/EP mode there are the same adjustmet as SP mode.)

Notes:

- ① Self-recorded tape means a cassette whose program was recorded by the unit being adjusted.
- ② The TV program will not be recoded if RCA or 21pin plugs are pluged in the AUDIO/VIDEO input terminals.
- ③ The tracking control is enabled with the (▲)/(▼) button.

ADJUSTMENT OF PAL SYSTEM FV (False Vertical Sync) OF STILL PICTURE

Measuring instrument	Colour TV monitor
Mode	Playback still
Cassette	Self-recorded tape (SP/LP/EP mode) (See Note below 1)
Control	Tracking control buttons (▲) or (▼)
Specification	No vertical jitter of picture

- Play a cassette which was recorded by the unit in SP mode.
- 2. Press the PAUSE/STILL button to freeze the picture.
- 3. Adjust (▲) or (▼) TRACKING buttons until the vertical jitter of the picture minimized.
- 4. Play and freeze the self-recorded tape in SP mode and make sure vertical jitter of the picture is not noticeable. (For the LP/EP mode adjustment is the same as at SP mode.)

Note:

- ① Self-recorded tape is a cassette which program was recorded by the unit being adjusted.
- ② The tracking control is enabled with the (▲)/(▼) button.

ADJUSTMENT OF NTSC SYSTEM SP/EP SLOW TRACKING PRESET

Measuring instrument	Colour TV monitor
Mode	Playback
Cassette	Self-recorded tape (SP/EP mode)(See Note below)
Control	Tracking control buttons (▲) or (▼)
Specification	Minimized noise on monitor screen

- 1. Have the unit to receive a good TV broadcast or feed a video signal to the VIDEO IN jack. (See note ② below)
- 2. Set the tape speed in SP mode by using the remote control and record the signal on tape.
- 3. Rewind and play the tape where signal was recorded in above step.
- 4. Press the SLOW button on the remote control, and playback the recorded portion in the slow mode.
- Make for a moment short-circuit TP801, located at the front side on the main PWB.
 Be sure that all the LCD display light up when press the TEST mode.

- 6. Adjust the (▲) or (▼) TRACKING buttons until there is minimum or no noise appear on the screen.
- 7. Press the STOP button to return to normal mode.
- 8. Play the tape a few seconds then press SLOW button again and make sure there is minimum or no noise on the screen. (For the E P mode adjustment is the same as SP mode.)

Notes:

- 1 Self-recorded tape is a cassette which program was recorded by the unit being adjusted.
- 2 The TV program will not be recoded if RCA or 21pin plugs are playyed in the AUDIO/VIDEO input terminals
- ③ The tracking control is enabled with the (▲)/(▼) button.

ADJUSTMENT OF NTSC SYSTEM FV (False Vertical Sync) OF STILL PICTURE

Measuring instrument	Colour TV monitor
Mode	Playback still
Cassette	Self-recorded tape (SP/EP mode) (See Note below 1)
Control	Tracking control buttons (▲) or (▼)
Specification	No vertical jitter of picture

- Play a cassette which was recorded by the unit in SP mode.
- 2. Press the PAUSE/STILL button to freeze the picture.
- 3. Adjust (▲) or (▼) TRACKING buttons until the vertical jitter of the picture minimized.
- 4. Play and freeze the self-recorded tape in SP mode and make sure vertical jitter of the picture is not noticeable. (For the EP mode adjustment is the same as SP mode.)

Note:

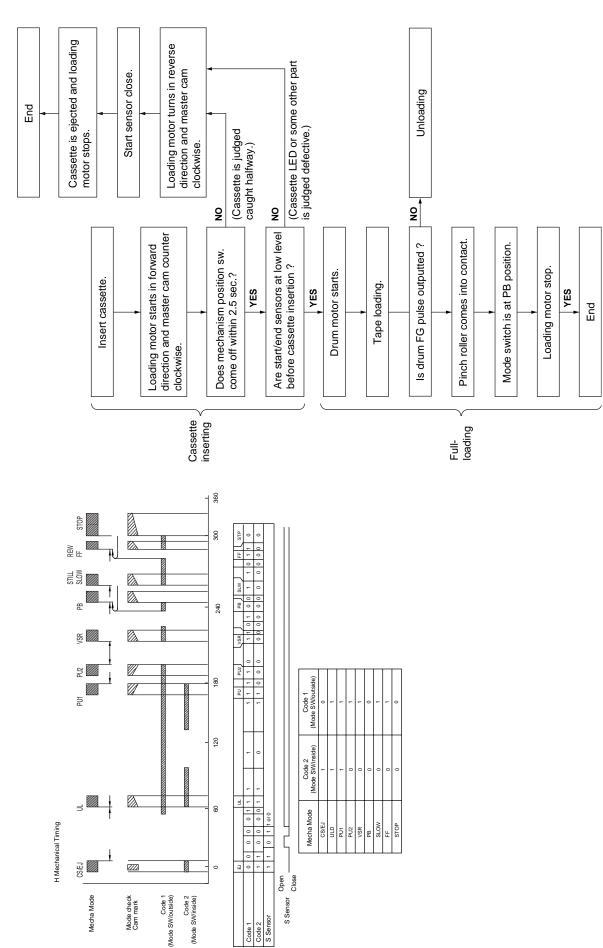
- ① Self-recorded tape is a cassette which program was recorded by the unit being adjusted.
- ② The tracking control is enabled with the (▲)/(▼) button.

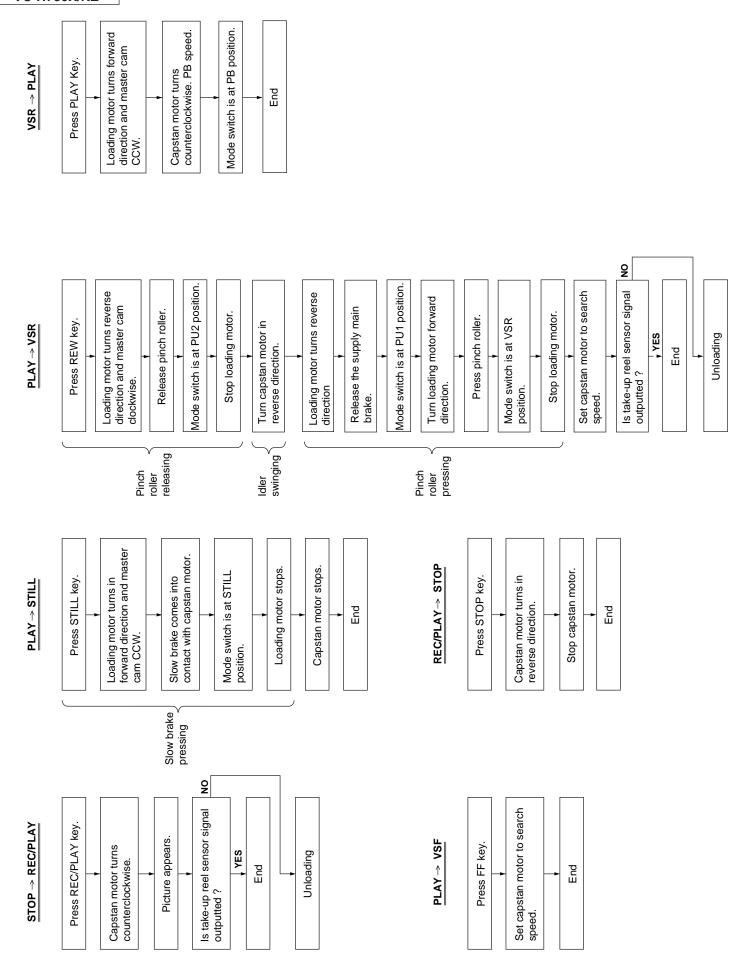
6. MECHANISM OPERATION FLOWCHART AND TROUBLESHOOTING GUIDE

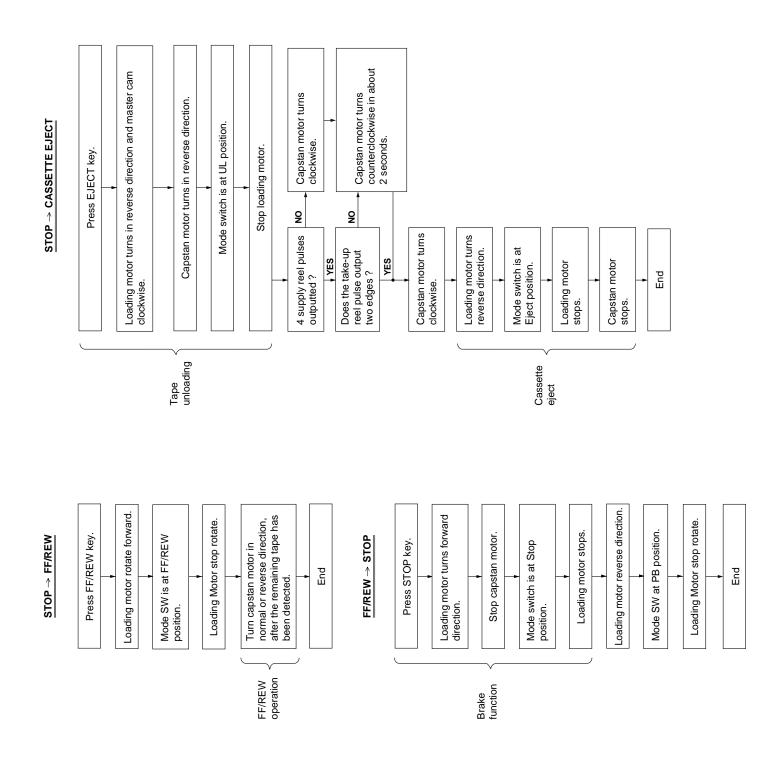
MECHANISM OPERATION FLOWCHART

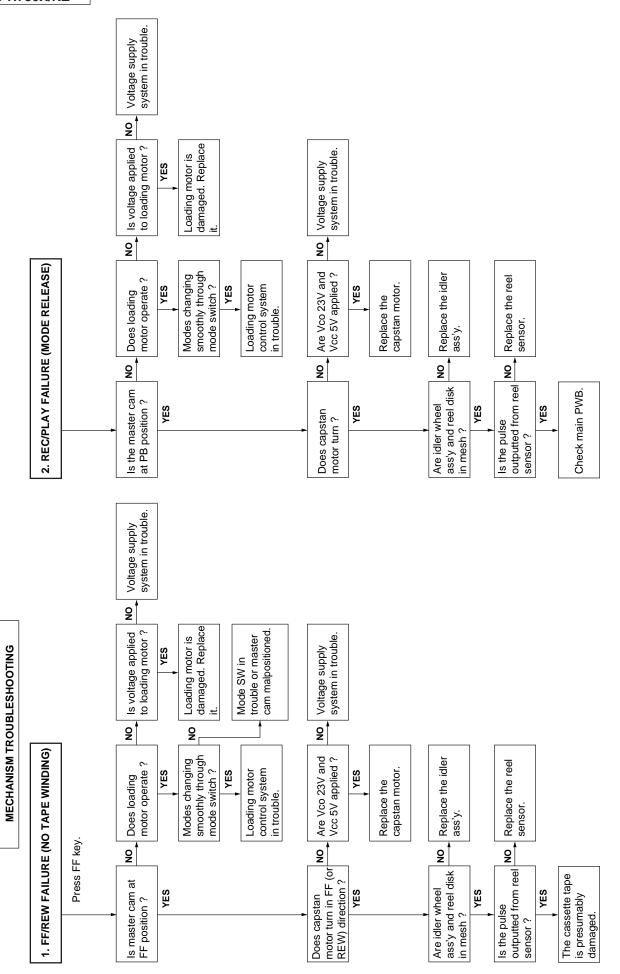
* This flowchart describes the outline of the mechanism's operation, but does not give its details.

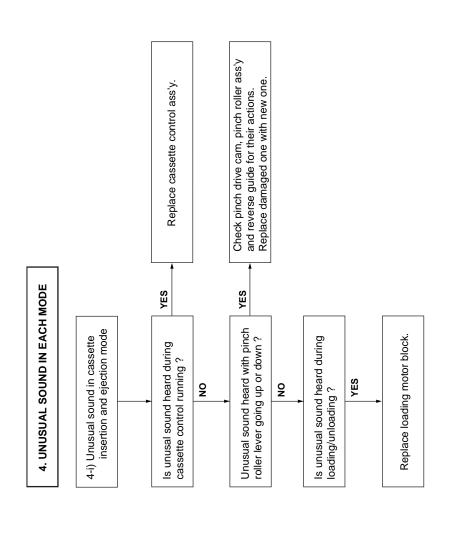
CASSETTE INSERTION → STOP

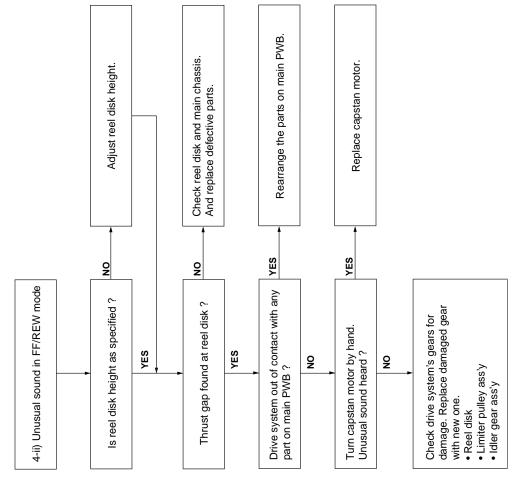




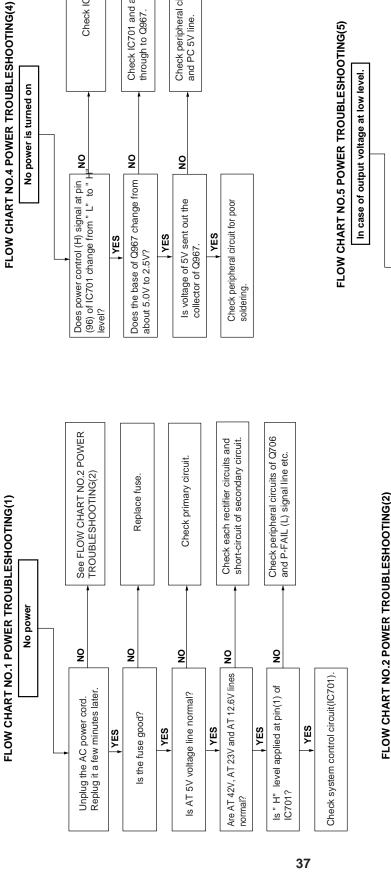








7. TROUBLESHOOTING

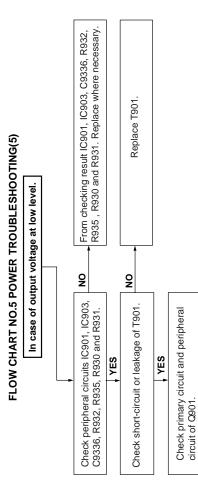


Check IC701 and all the way up

through to Q967

Check IC701

Check peripheral circuit of Q967 and PC 5V line.

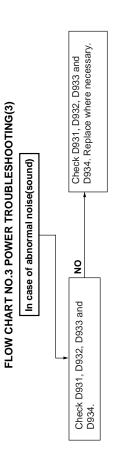


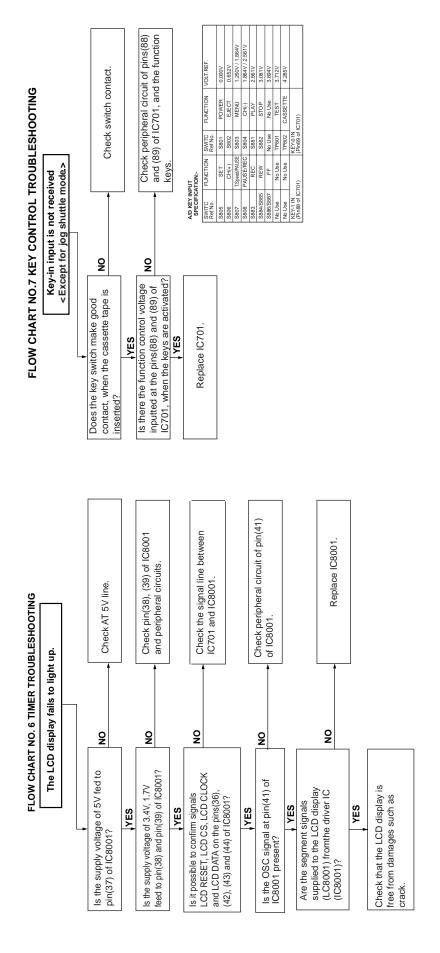
Check short-circuit or leak of D931, D932, D933, D934, and secondary circuit.

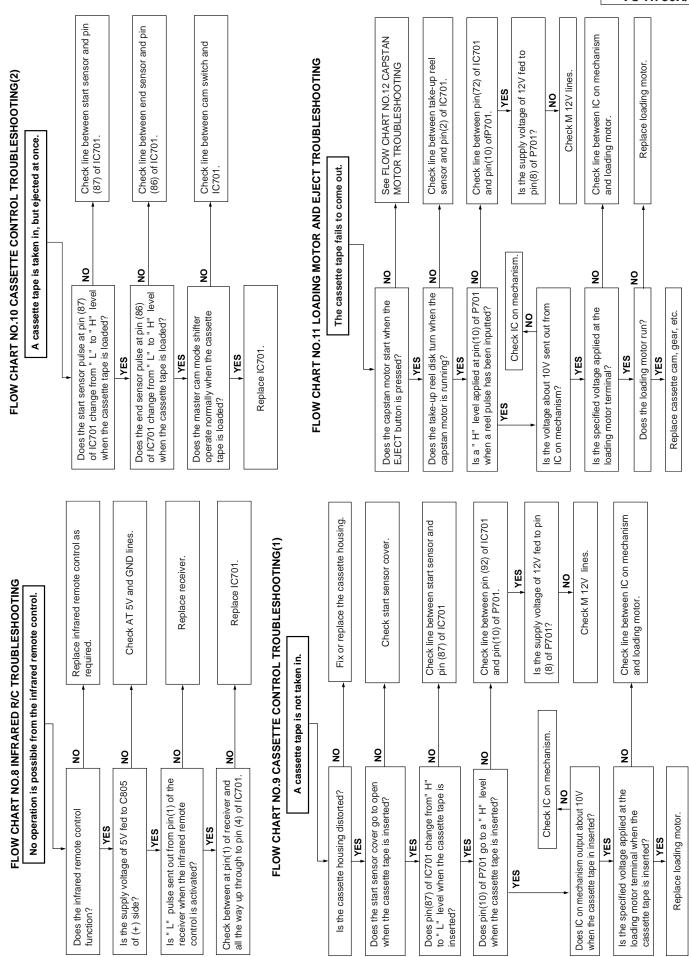
R904, check D901, D902, D903 and D904. Replace where necessary.

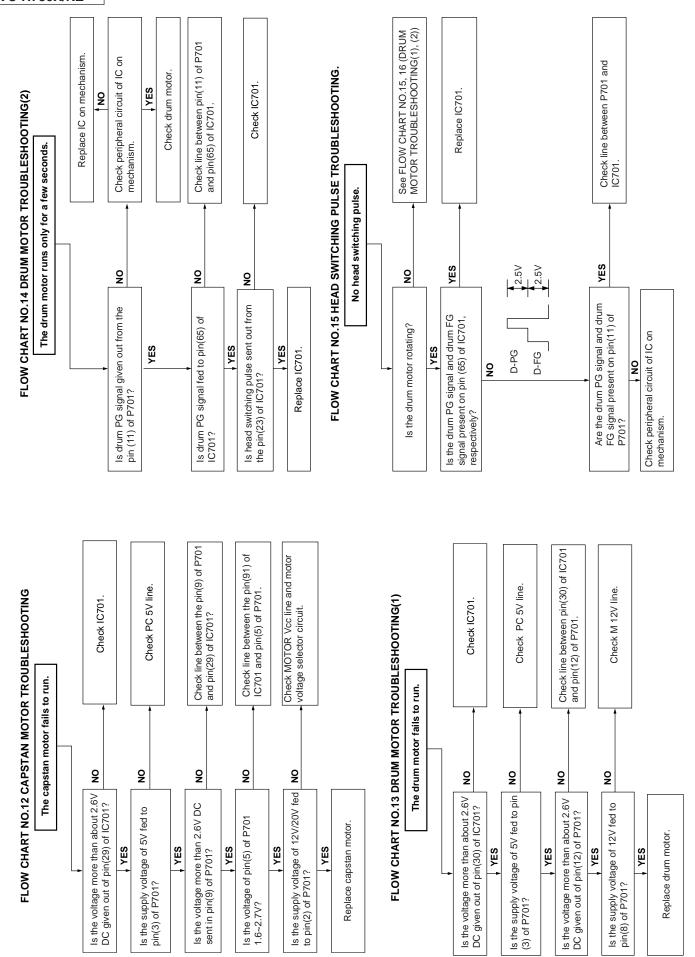
Replace F901, Q901, IC902 and

In case of Fuse(F901) blown out.





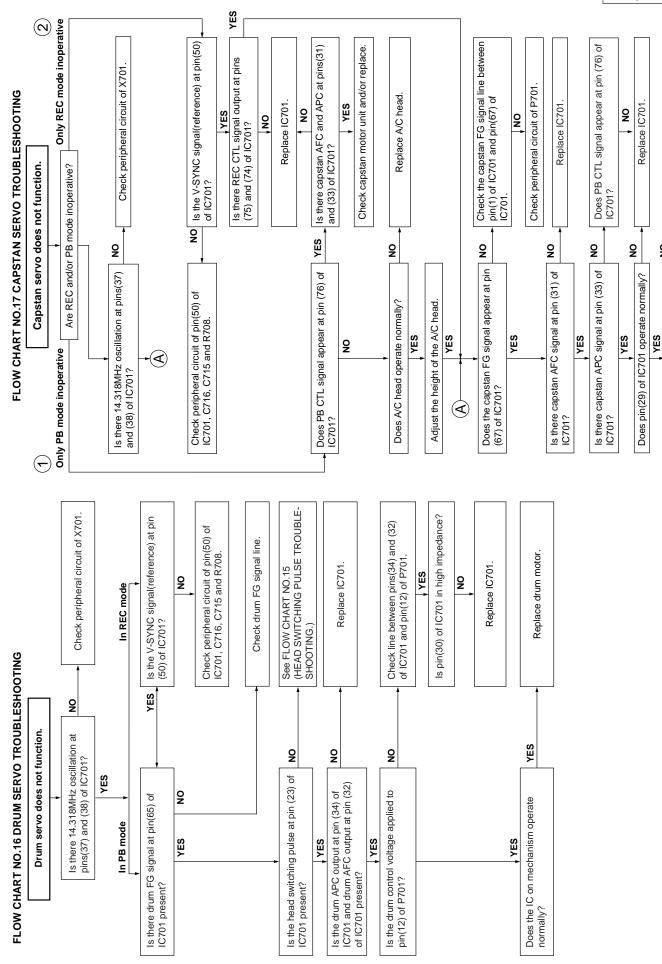


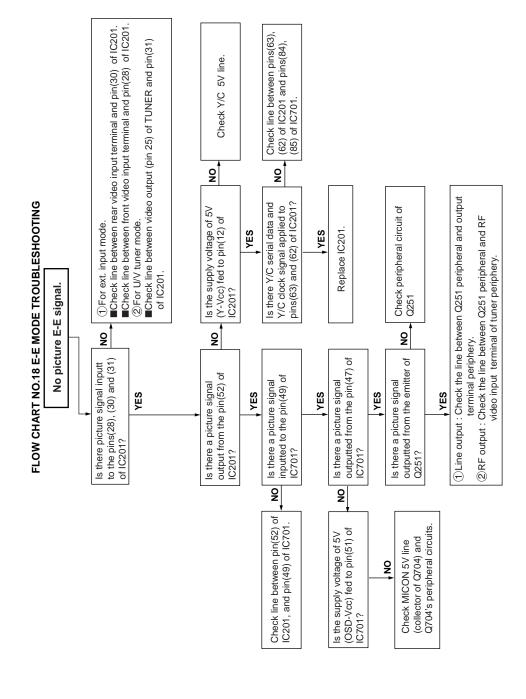


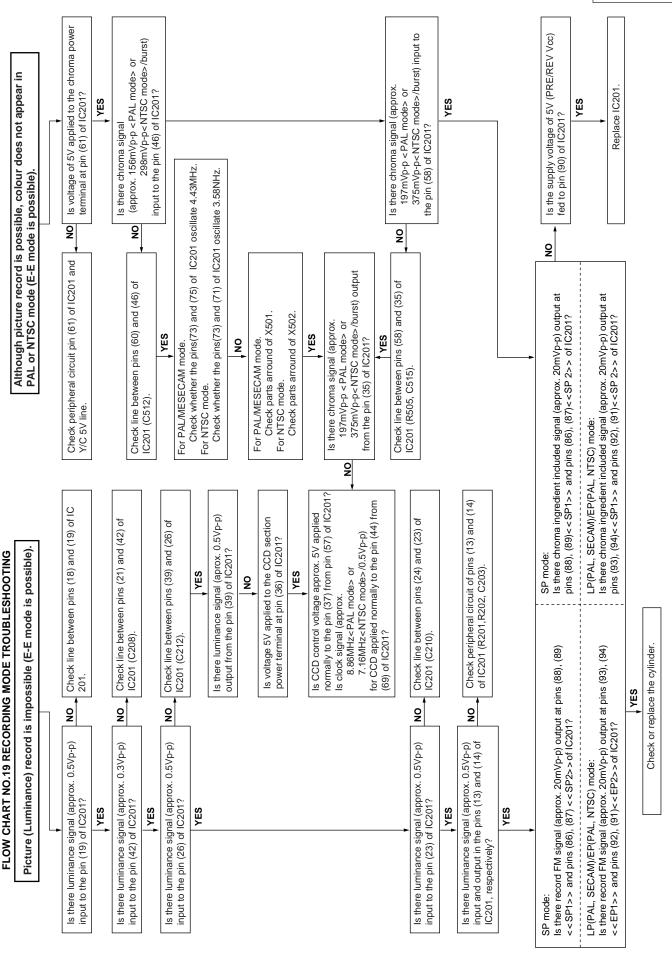
Check "2"

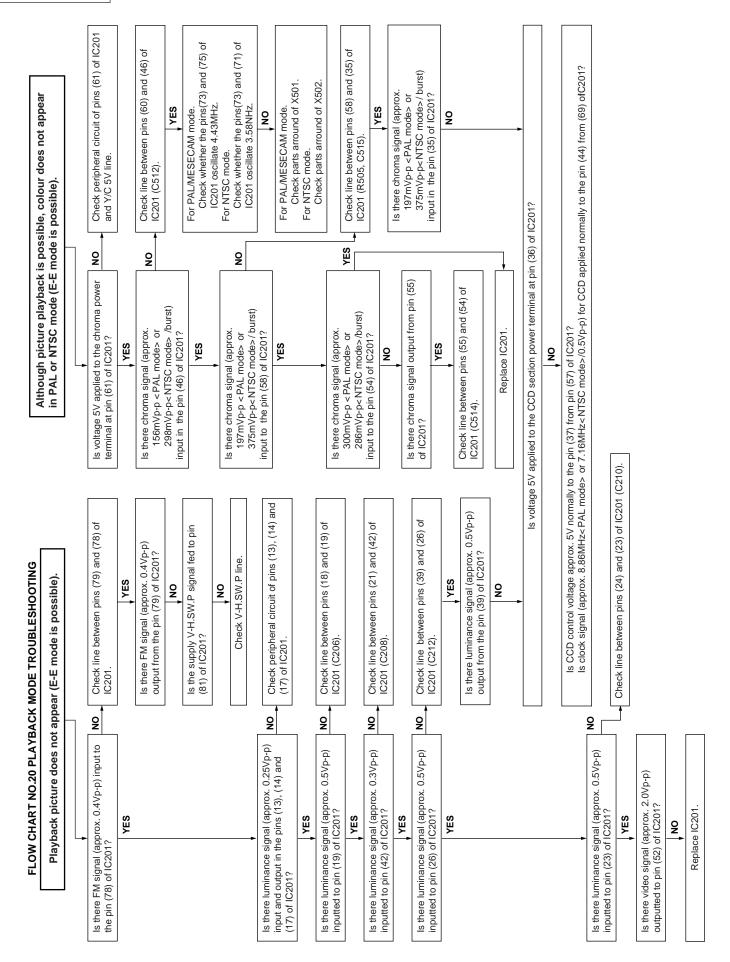
9

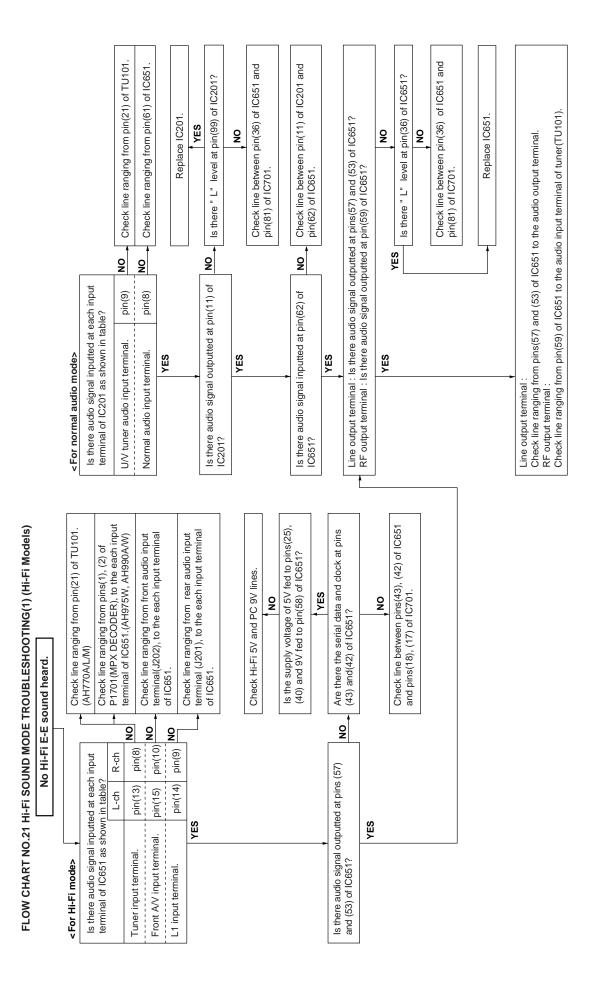
Check "①

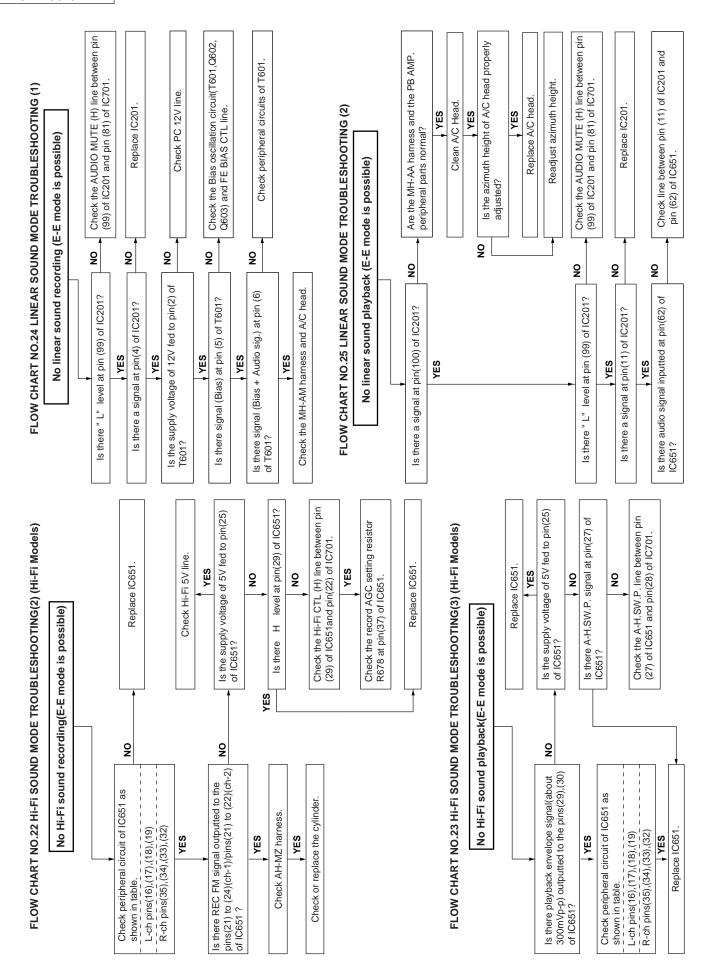


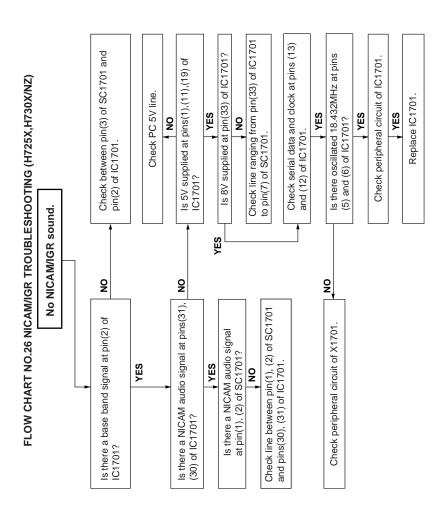












REPLACEMENT OF IC710(E²PROM)

«Servicing precautions»

When the IC710(E²PROM) has been replaced, make the following reprogramming.

Depending on models, the IC710(E²PROM) has been factory adjusted for it's memory function.

It's therefore necessary to reprogram the memory function for the model in question.

Note that the servo circuit requires readjustments for the slow and still modes.

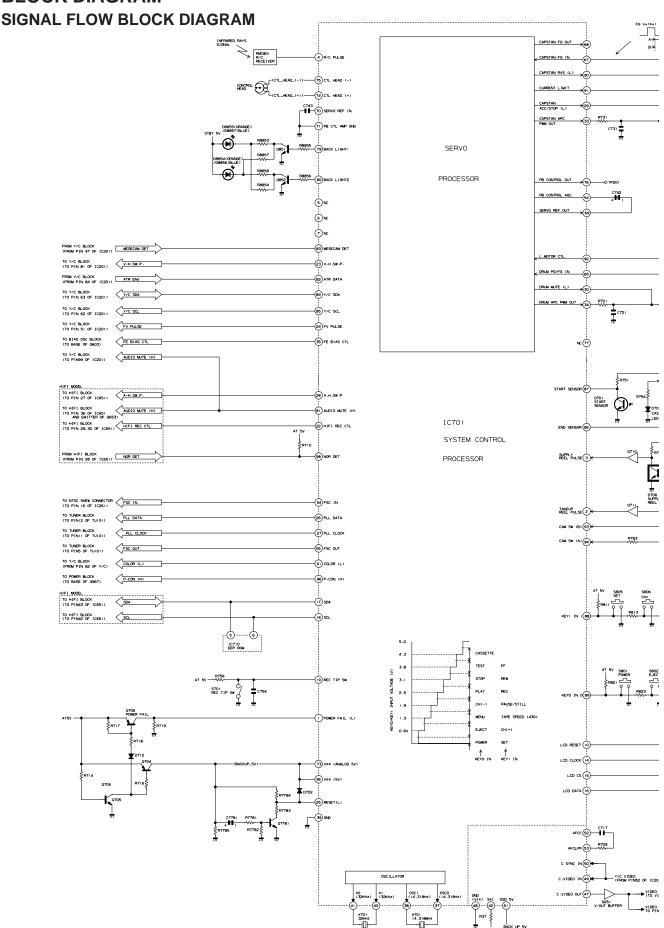
- 1. Memory function reprogramming.
 - 1. Check the power off.(Power is standby mode)
- 2. Make for moment short-circuit test point(TP801), located at the front side on the main PWB. Be sure that all the LCD display light up into the TEST mode.
- 3. Using the CHANNEL(+) AND (–) buttons, select the right function numbers from JP0 to J39, which appear in the LCD display, referring to the E²PROM map.
 - Press the DISPLAY button to pickup the functions(ON) and the CLEAR button to discard the functions(OFF). DISPLAY and CLEAR buttons, are located on the remote control unit.
 - * when the DISPLAY button has been pressed (ON), the memory function number starts flashing.
 - * when the CLEAR button has been pressed (OFF), the memory function number lights up.
- 2. Memory recording preset level reprogramming.
 - 1. Similarly to the above step 1-1 and 2 the same operate.
 - 2. Using the CHANNEL (+) AND (-) buttons, select the right function numbers continued from recording preset number as has been JP0~J39, which appear in the LCD display, referring to the E²PROM map.
- 3. Finally make for a moment short-circuit test point(TP801), both located at the front side on the main PWB to clear the TEST mode.

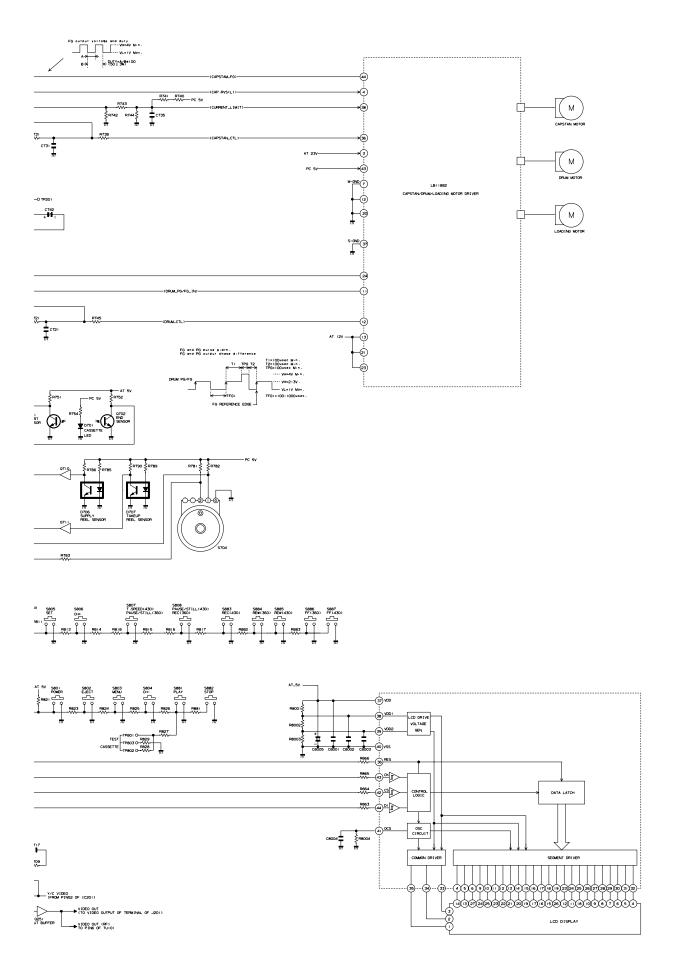
ROM MAP

	MODEL	VC-A310X	VC-A310NZ	VC-H725X	VC-H730X	VC-H730NZ
JP39	SQ PB	0	0	1	1	1
JP38	SLOW ATR OFF	1 1	1 1	0	0	0
JP37	INSTANT REPLAY	0	0	1 1	1	1
JP36	NTSC PB	1 1	1	1	1	1
JP35	NTSC SKEW	0	0	0	0	0
JP34	HEAD2	1 1	1	1	1	1
JP33	HEAD1	1 1	1 1	1	1	1
JP32	HEAD0	1 1	1 1	0	0	0
JP31	GAMMA	0	0	0	0	0
JP30	LOW POWER 5MIN.	0	0	0		0
JP29	POSI 84	0	0	0		0
JP28	R/C 1/2	0	0	0		0
JP27	DNR	0	0	0	0	0
JP26		0	0	0		0
JP25		0	0	0	0	0
JP24		0	0	0	0	0
JP23	Hi-Fi	0	0	1	1	1
JP22	SORT	0	0	0	0	0
JP21	DECODER	0		0	0	0
JP20	SURROUND	0		0	0	0
JP19	IGR	0	0	1	1	1
JP18	NICAM	0		0	0	1 1
JP17	G-CODE 1	0		0	1	1 1
JP16	G-CODE 0	0		0	0	0
JP15	LP/EP	1	1	1	1	1
JP14	LP/EP	0		0	0	0
JP13	FRONT AV	0		1	1	1 1
JP12	DUAL SCART	0		0	0	0
JP11	RF OUT SETTIG OFF	0	0	0	0	0
JP10	TUNER 2	0		0	0	0
JP 9	TUNER 1	0	1	0	0	1
JP 8	TUNER 0	1 1	0	1	1	0
JP 7	SYSTEM 1	0	0	0	0	0
JP 6	SYSTEM 0	0		0	0	0
JP 5	VCP (KARAOKE Only)	0		0	0	0
JP 4	LOW POWER	0		0	0	0
JP 3	OEM	0	0	0	0	0
JP 2	SPATIALIZER	0	0	0	0	0
JP 1	COLOR 1	1 1	1	1	1	1 1
JP 0	COLOR 0	† ₁ :	1	₁	1	<u>-</u>
DISPLAY IN HEXADECIMAL NOTATION		5700008103			B6008AA103	

0:LIGHT UP 1:FLASHING

8. BLOCK DIAGRAM

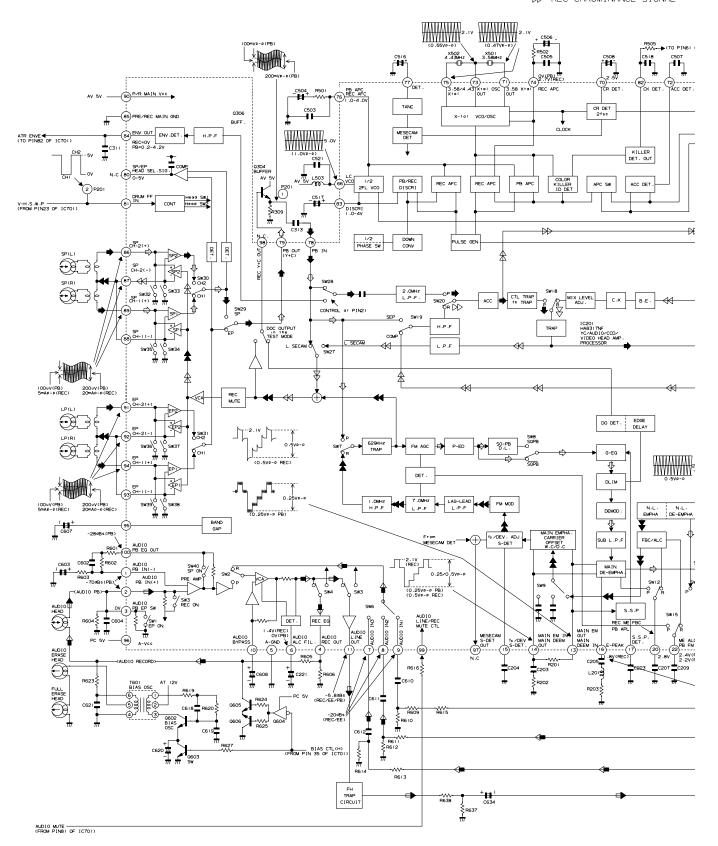




SIGNAL FLOW BLOCK DIAGRAM (VC-A310X/NZ)

► E-E SIGNAL ► REC LUMINANCE SIGNAL

□ REC CHROMINANCE SIGNAL

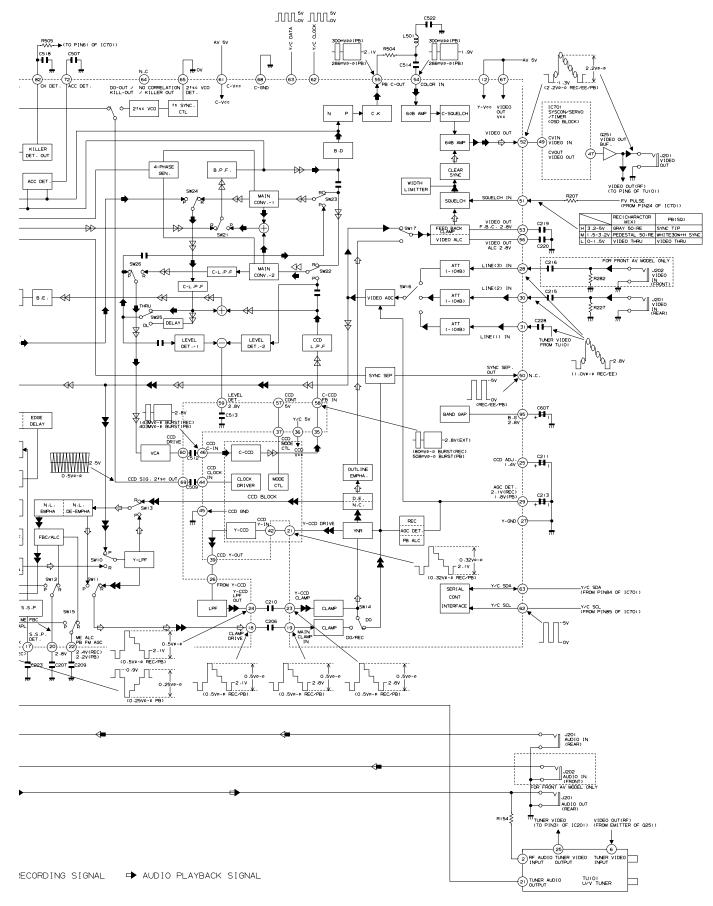


E SIGNAL

⇒ PB LUMINANCE SIGNAL

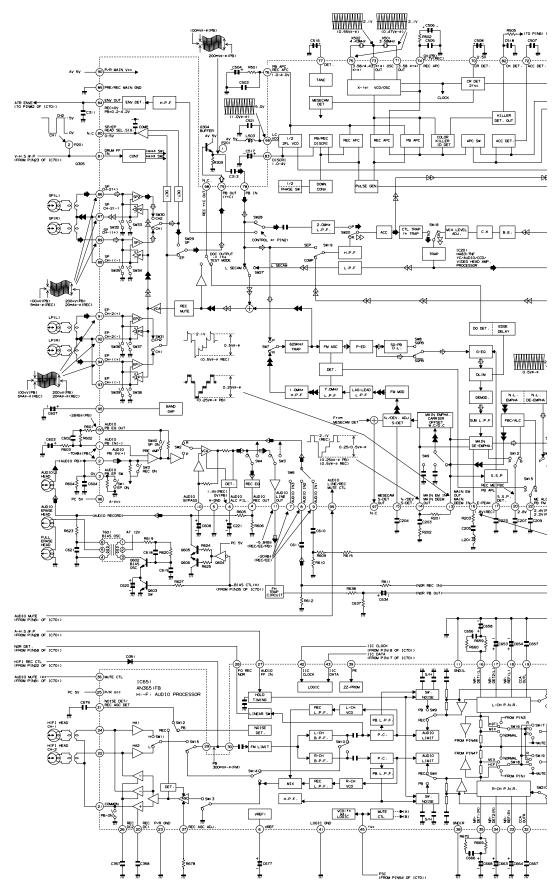
NCE SIGNAL

→ PB CHROMINANCE SIGNAL



SIGNAL FLOW BLOCK DIAGRAM (VC-H725X, H730X/NZ)

- ► E-E SIGNAL → AUDIO RECORDING SIGNAL ► REC LUMINANCE SIGNAL
 - D> REC CHROMINANCE SIGNAL

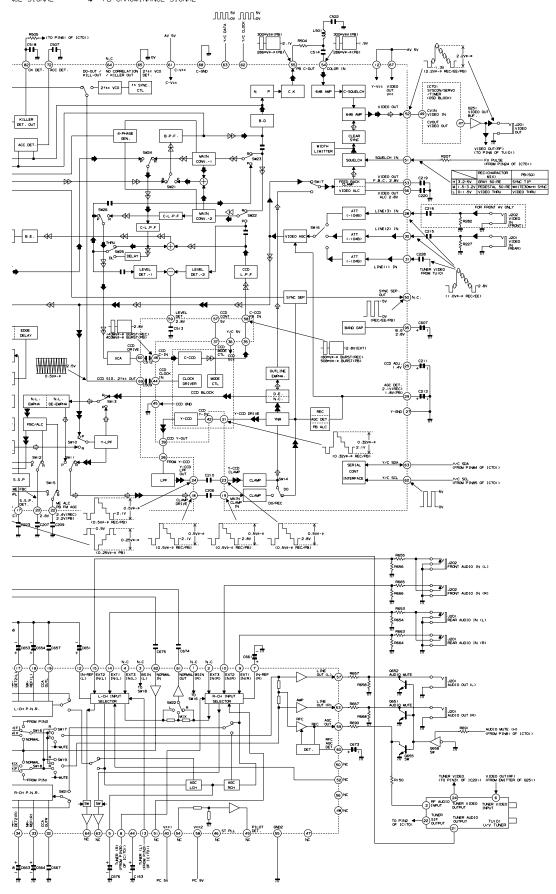


NG SIGNAL

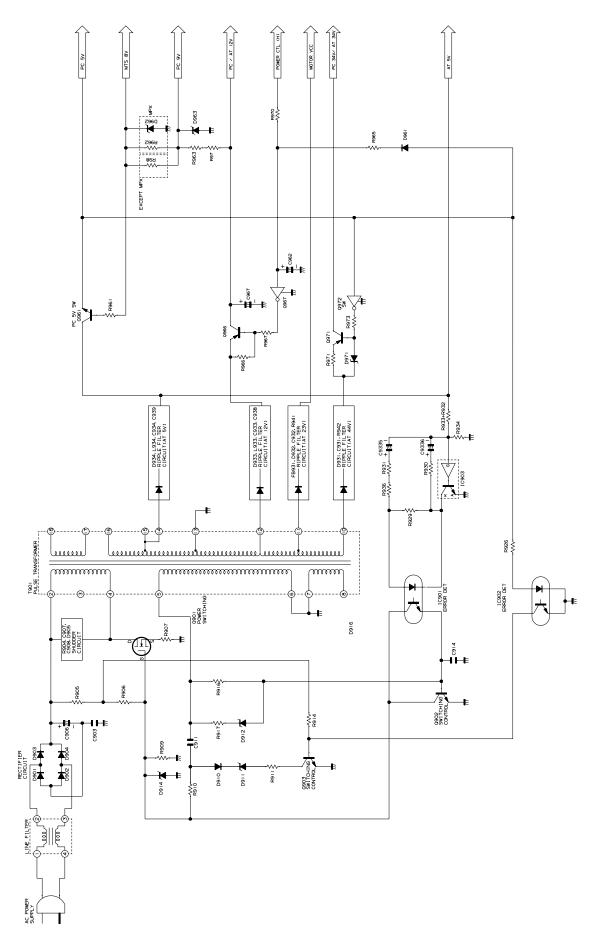
: SIGNAL

∴ PB LUMINANCE SIGNAL

∴ PB CHROMINANCE SIGNAL



POWER CIRCUIT BLOCK DIAGRAM



SCHEMATIC DIAGRAM

IMPORTANT SAFETY NOTICE:

BE SURE TO USE GENUINE PARTS FOR SECURING THE SAFETY AND RELIABILITY OF THE SET.

PARTS MARKED WITH " A " AND PARTS SHADED (IN BLACK) ARE ESPECIALLY IMPORTANT FOR MAINTAINING THE SAFETY AND PROTECTING ABILITY OF THE SET.

BE SURE TO REPLACE THEM WITH PARTS OF SPECIFIED PART NUMBER.

SAFETY NOTES:

- 1. DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACING PARTS.
- 2. SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.

NOTES:

- 1. The unit of resistance "ohm" is omitted (k=1000 ohm, M=1 Meg ohm).
- 2. All resistors are 1/8 watt, unless otherwise noted.
- 3. The unit of capacitance "F" is omitted ($\mu=\mu F$, $p=\mu\mu F$).
- 4. The values in parentheses are the ones in the PB mode; the values without parentheses are the ones in the REC mode.

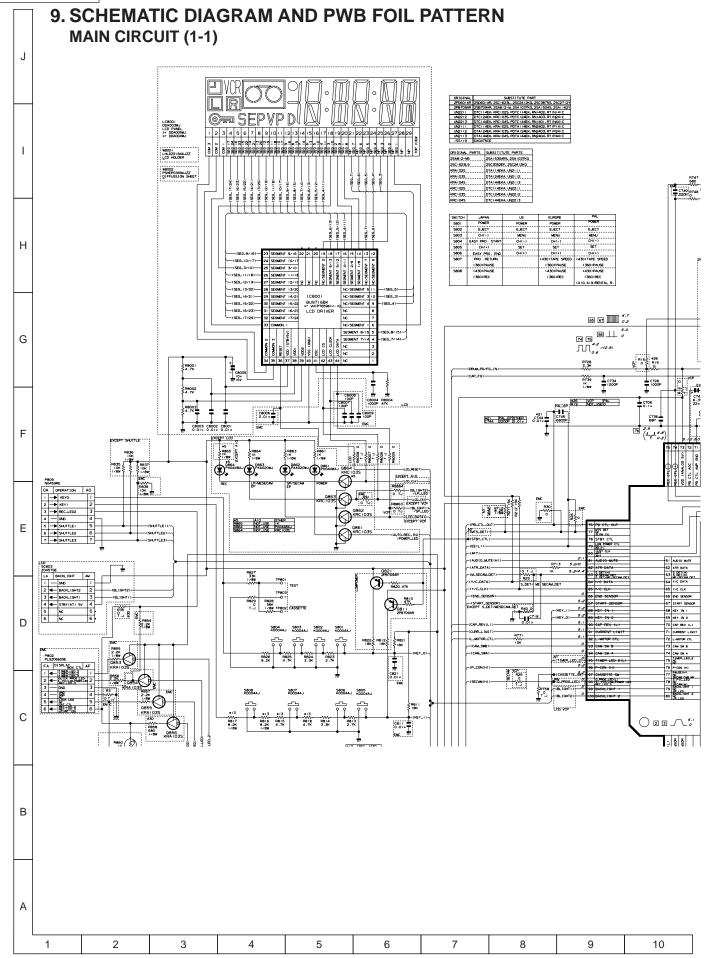
VOLTAGE MEASUREMENT CONDITIONS:

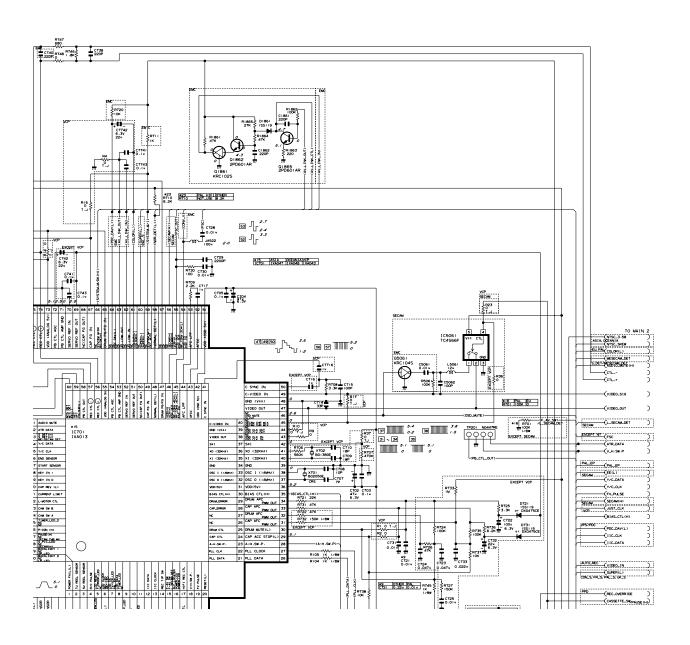
- 1. DC voltages are measured between points indicated and chassis ground by VTVM, with AC110~240V, 50/60Hz supplied to unit and all controls are set to normal viewing picture unless otherwise noted.
- Voltages are measured with 10000μV B & W or colour noted.

WAVEFORM MEASUREMENT CONDITIONS: 10000µV 87.5 percent modulated colour bar signal is fed into tuner.

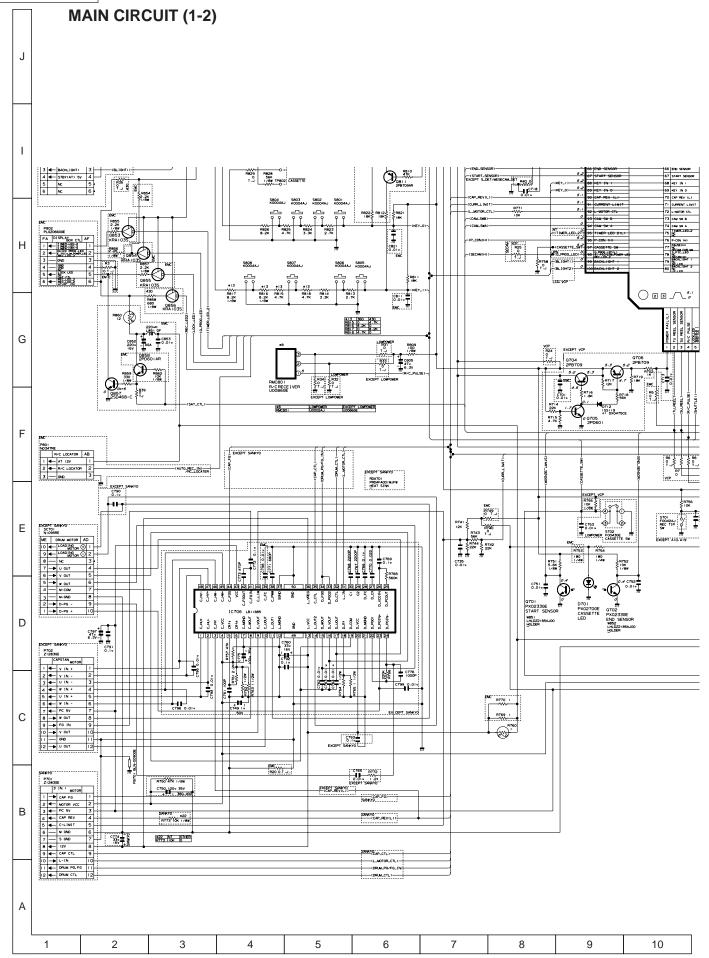
CAUTION:

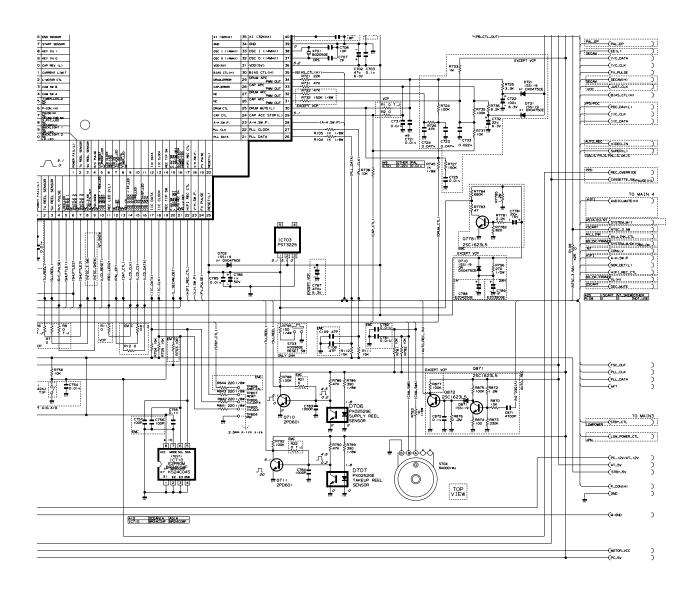
This circuit diagram is original one. Therefore there may be a slight difference from yours.



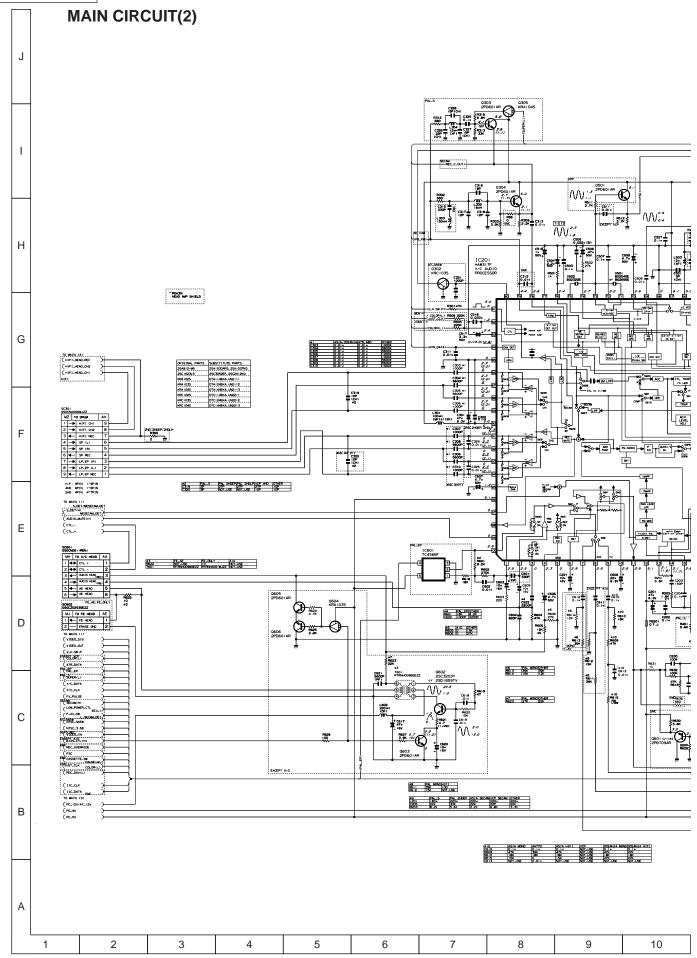


10	11	12	13	14	15	16	17	18	19



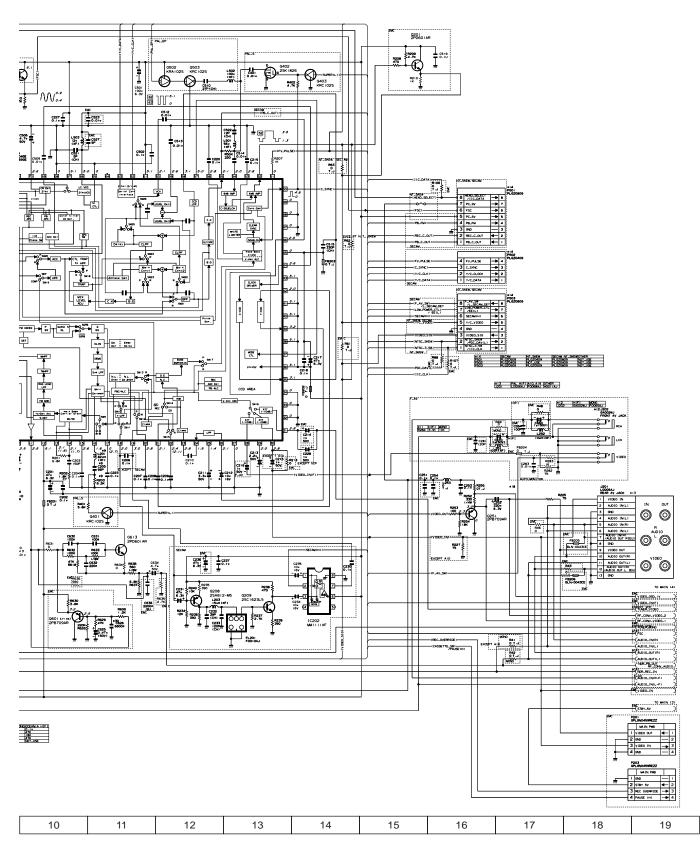


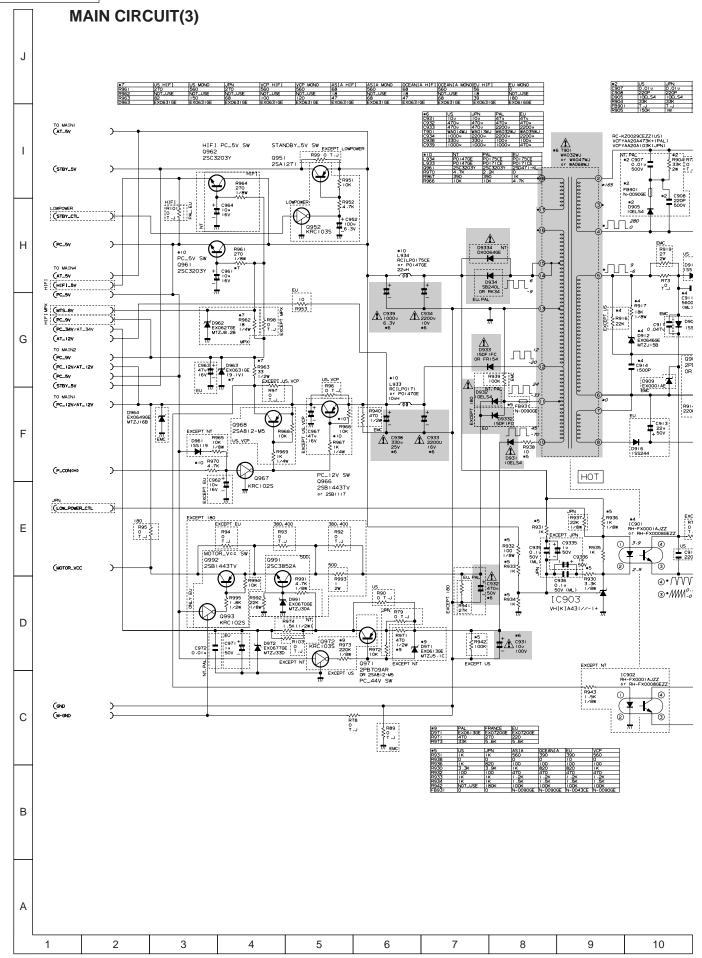
10	11	12	13	14	15	16	17	18	19

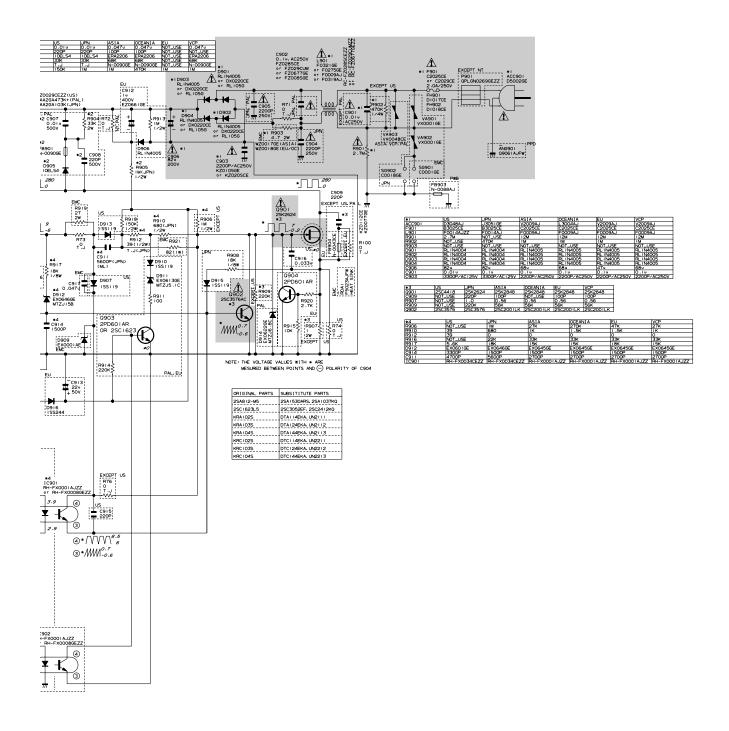


* VOLTAGE MEASUREMENT MODE

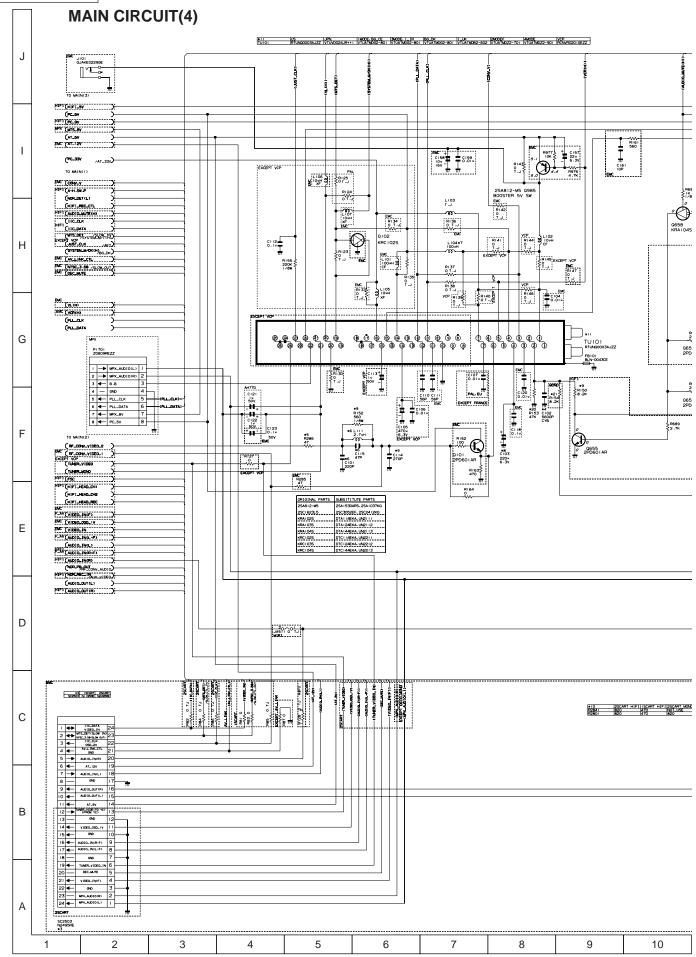
PB Parentheses ()
REC ... Without Parentheses





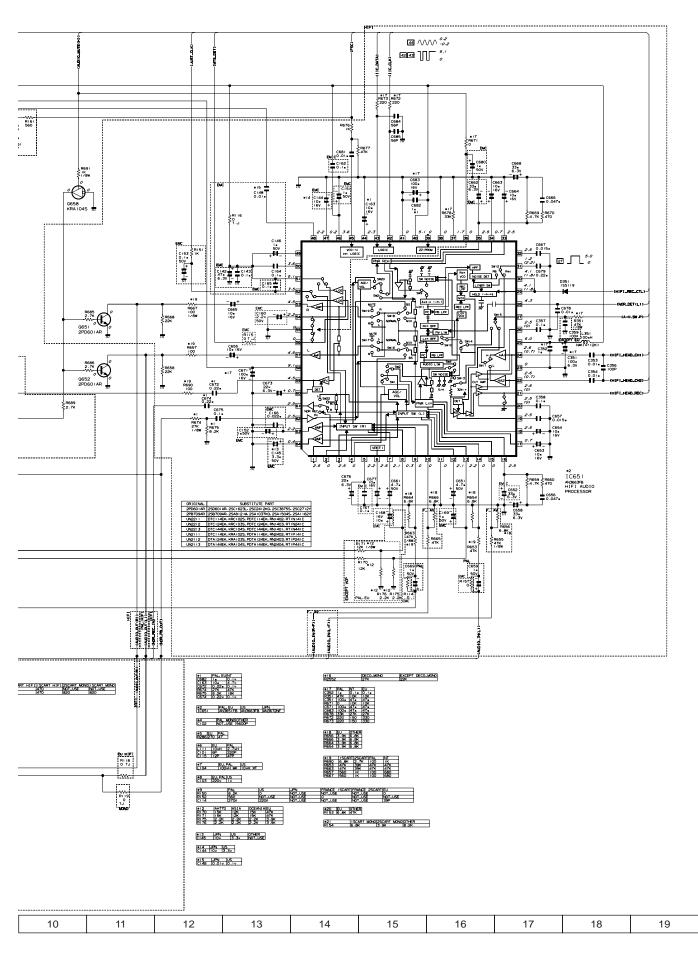


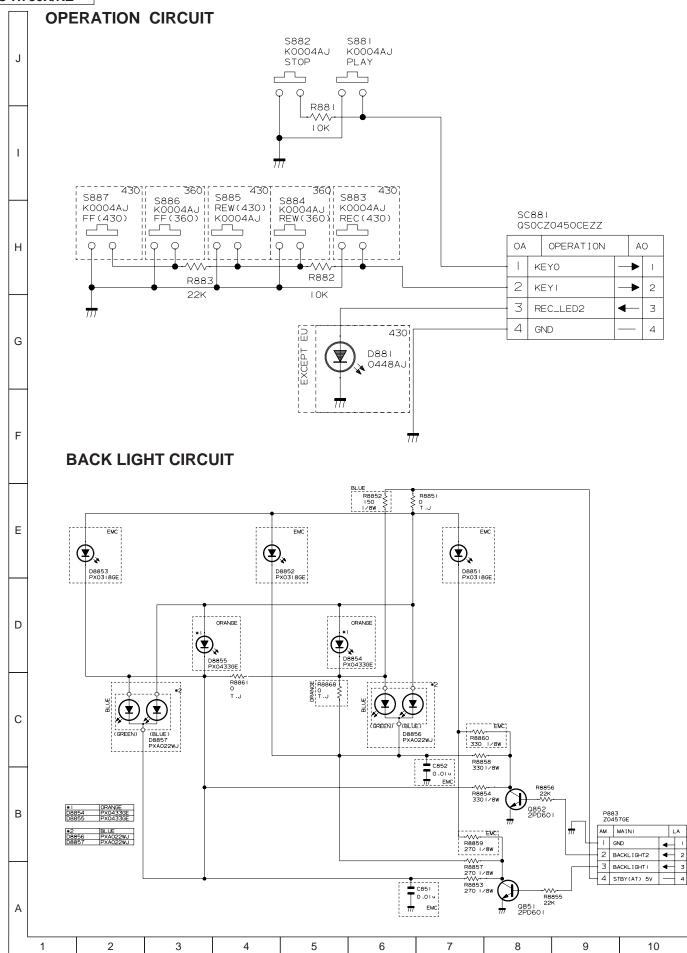
10	11	12	13	14	15	16	17	18	19
----	----	----	----	----	----	----	----	----	----



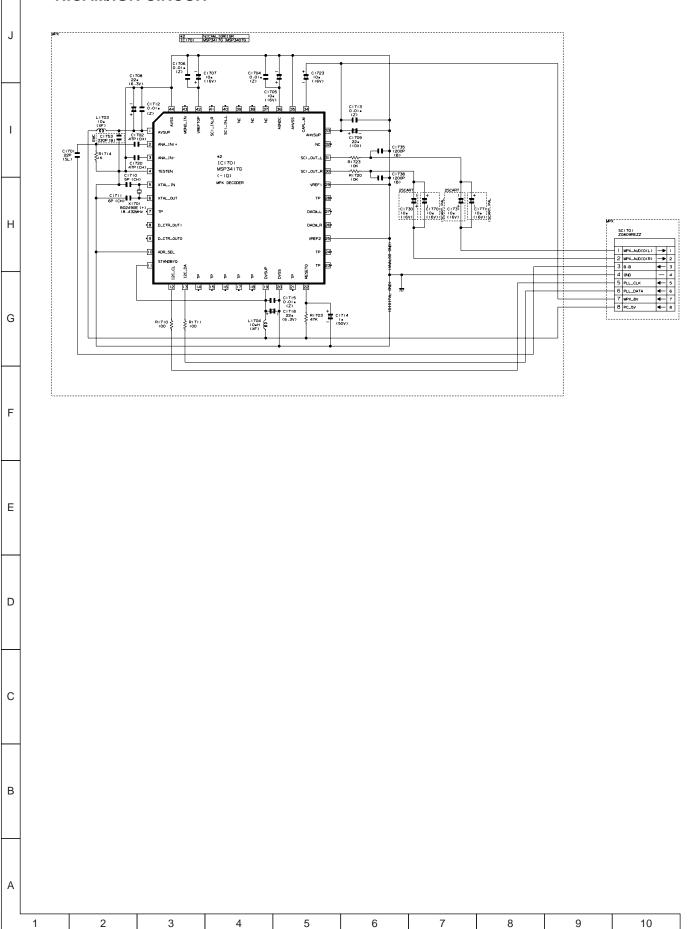
* VOLTAGE MEASUREMENT MODE

PB Parentheses () REC ... Without Parentheses



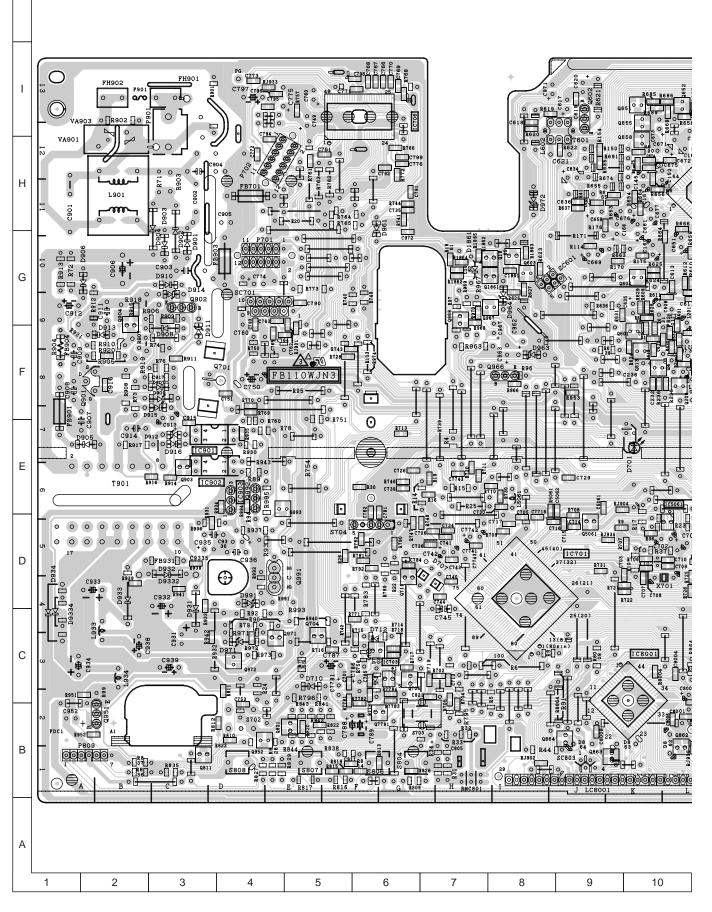


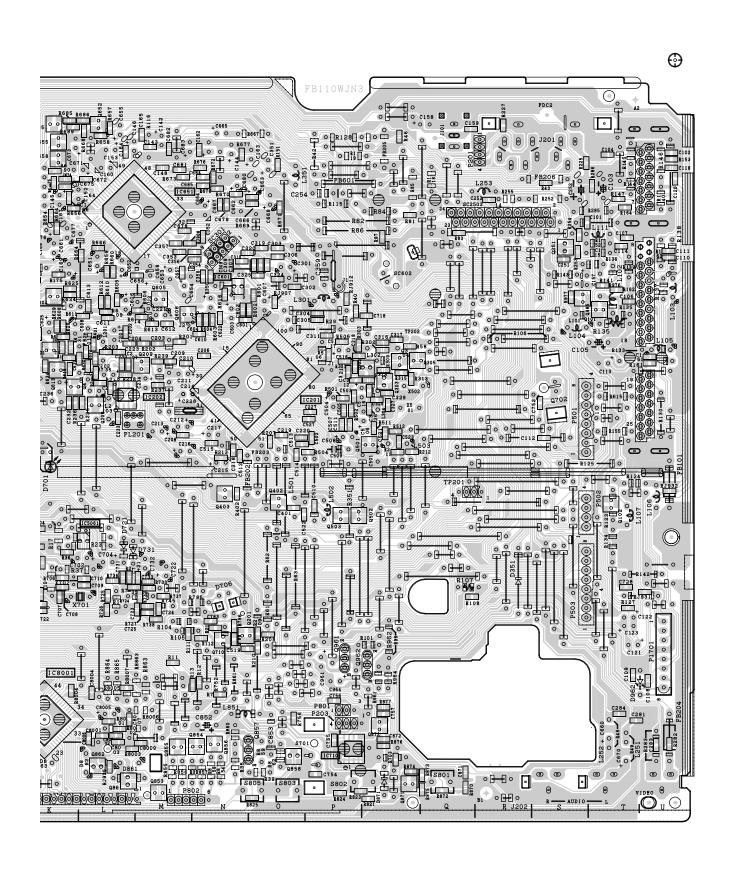
NICAM/IGR CIRCUIT



J

PWB FOIL PATTERN MAIN PWB





10	11	12	13	14	15	16	17	18	19

J

ı

Н

G

F

Ε

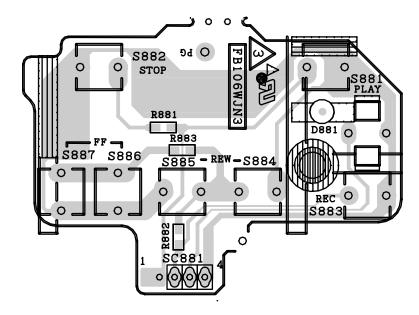
D

С

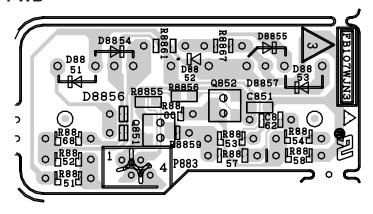
В

Α

OPERATION PWB



BACK LIGHT PWB

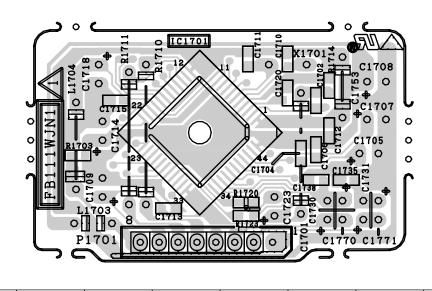


NICAM/IGR PWB

2

3

4



6

8

10

5

10. REPLACEMENT PARTS LIST PARTS REPLACEMENT

Parts marked with " ____ " are important for maintaining the safety of the set.Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER

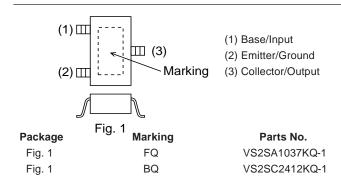
2. REF. NO.

3. PART NO.

4. DESCRIPTION

5. PRICE CODE

HOW TO IDENTIFY CHIP TRANSISTORS AND DIODES BY ITS MARKING



MARK ★: SPARE PARTS-DELIVERY SECTION

Ref. No. Part No. ★ Description Code

PRINTED WIRING BOARD ASSEMBLIES

(NOT REPLACEMENT ITEM)

DUNTKB106TEV6	-	Operation Unit (H730X/NZ)	_
DUNTKB106TEV7	-	Operation Unit (A310X/NZ,H725X)	_
DUNTKB107TEV5	-	Back Light Unit	_
DUNTKB110TEVU	-	Main Unit (A310X)	_
DUNTKB110TEVV	-	Main Unit (A310NZ)	_
DUNTKB110TEVW	-	Main Unit (H725X)	_
DUNTKB110TEVF	-	Main Unit (H730X)	_
DUNTKB110TEVG	-	Main Unit (H730NZ)	_
DUNTKB111TEV1	-	IGR Unit (H725X, H730X)	_
DUNTKB111TEV2	-	NICAM Unit (H730NZ)	_

Ref. No. Part No. ★ Description Code

DUNTKB110TEvF/vg/vu/vv/vw

MAIN Unit

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	NOTE:	THE PARTS HERE ASSEMBLY BUT N		 OWN ARE SUPPLIED AS INDEPENDENTLY.	SAN
	TU101	VTUATMDG2-801	_	Tuner (A310X/NZ)	BF
	TU101	VTUATMDG2-836		Tuner (H725X,H730X/NZ)	
		INTEGRATE	ח	CIRCUITS	
	IC201	VHiHA8317F/-1		HA118317F	ВА
	IC601	VHiTC4S66F/-1Y	V	TC4S66F	AD
	IC651	VHiAN3651FB-1	V	AN3651FBP	AU
				(H725X, H730X/NZ)	
	IC701	RH-iXA048WJZZQ	V		AX
	IC703	VHiPST3225N1EY	V	PST3225	AD
	IC710	VHiBR24C04F-1Y	V	BR24C04F-WE2	AG
	IC903	VHiKiA431//-1+	V	KIA431	ΑE
	IC8001	VHiBU9716BK-1Q	V	BU9716BK	AM
		TRAN	CIT	ORS	
	0251				AB
	Q251	VS2PB709AR/-1Y	-		
	Q303	VS2PD601AR/-1Y	V	2PD601AR	AB
				(H725X, H730X/NZ)	
	Q304	VS2PD601AR/-1Y	V		AB
	Q305	VSKRA104S//-1Y	V	KRA104S	AA
				(H725X, H730X/NZ)	
	Q401	VSKRC102S//-1Y	V		AA
				(H725X, H730X/NZ)	
	Q402	VS2SK1826++-1Y	V	2SK1826++	AC
			-	(H725X, H730X/NZ)	
	Q403	VSKRC102S//-1Y	V		AA
	Q 1 00	VOINTO 1020//-11	٧	(H725X, H730X/NZ)	7.7.
	OFOO	VCVD 4400C// 4V	١./	KRA102S	AA
	Q502	VSKRA102S//-1Y			
	Q503	VSKRC102S//-1Y		KRC102S	AA
	Q602	VS2SC3203Y/-1+		2SC3203Y	AC
	Q603	VS2PD601AR/-1Y		2PD601AR	AB
	Q604	VSKRA103S//-1Y		KRA103S	AA
	Q605	VS2PD601AR/-1Y	V	2PD601AR	AB
	Q606	VS2PD601AR/-1Y	V	2PD601AR	AB
	Q613	VS2PD601AR/-1Y	V	2PD601AR	AB
	Q651	VS2PD601AR/-1Y	V	2PD601AR	AB
				(H725X, H730X/NZ)	
	Q652	VS2PD601AR/-1Y	V	2PD601AR	AB
	Q655	VS2PD601AR/-1Y			AB
	QUUU	V021 D001AIV-11	٧	(H725X, H730X/NZ)	AD
	Q658	VSKRA104S//-1Y	١/	KRA104S	AA
	Q704	VS2PB709AR/-1Y	V	2PB709AR	AB
	Q705	VS2PD601AR/-1Y		2PD601AR	AB
	Q706	VS2PB709AR/-1Y	V	2PB709AR	AB
	Q710	VS2PD601AR/-1Y		2PD601AR	AB
	Q711	VS2PD601AR/-1Y	V	2PD601AR	AB
	Q856	VSKRA103S//-1Y	V	KRA103S (H730X/NZ)	AA
<u>^</u>	Q901	VS2SK2848//-1	V	2SK2848	AΗ
<u>^</u>	Q902	VS2SC2001LK-1+	V	2SC2001LK	AA
	Q903	VS2PD601AR/-1Y	V	2PD601AR	AB
	Q961	VS2SC3203Y/-1+	V	2SC3203Y	AC
	Q966	VS2SB1443TV1E+		2SB1443TV	AE
	Q967	VSKRC102S//-1Y		KRC102S	AA
	Q971	VS2PB709AR/-1Y	V	2PB709AR	AB
	Q971 Q972	VSKRC103S//-1Y	V	KRC103S	AA
	QSIZ	V 3 K K C 1033//-11	V	KKC1033	AA
	Don't	DIO			۸ ۸
	D351	VHD1SS119//-1Y	V		AA
				(H725X, H730X/NZ)	
	D701	RH-PX0270GEZZ+	V	PhotoDiode	AC
	D702	VHD1SS119//-1Y	V	1SS119	AA
	D706	RH-PX0252GEZZ	V	GP1S563	AF
	D707	RH-PX0252GEZZ	V	GP1S563	AF
	D710	VHD1SS119//-1Y		1SS119	AA
	D712	VHD1SS119//-1Y		1SS119	AA
	D721	VHD1SS119//-1Y		1SS119	AA
	D731	VHD1SS119//-1Y	V	1SS119	AA
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Ref. No.	Part No.	*	Description	Code	Ref. No.	Part No.	Description Cod	de
<u> </u>	VHDRL1N4005-1Y	V	RL1N4005	AC	C203	VCCCCY1HH151JS \	/ 150p 50V Ceramic A	AA
⚠ D902	VHDRL1N4005-1Y	V		AC	C204	VCKYCY1CF104ZS \		AA
⚠ D903	VHDRL1N4005-1Y	V		AC	C205	VCCCCY1HH330JS \		AA
⚠ D904	VHDRL1N4005-1Y		RL1N4005	AC	0200	100000	(A310X/NZ)	, , ,
D905	VHDERA2206/-1Y	V		AC	C205	VCCCCY1HH220JS \		AA
D903	VHD1SS119//-1Y		1SS119	AA	0203	VCCCC1 1111122005	(H725X, H730X/NZ)	$\Lambda\Lambda$
					COOC	VCKVCV4CE4047C \		Λ Λ
D911	RH-EX0613GEZZY			AB	C206	VCKYCY1CF104ZS \		AA
D912	RH-EX0645GEZZY			AB	C207	VCKYCY1CF104ZS \		AA
D914	RH-EX0622GEZZY			AB	C208	VCKYCY1CF104ZS \		AA
<u> </u>	VHD10ELS4//-1Y		10ELS4	AD	C209	VCKYCY1CF104ZS \		AA
<u> </u>	VHD10ELS4//-1Y	V	10ELS4	AD	C210	VCKYCY1CF104ZS \		AA
<u> </u>	VHD15DF1FC/1E	V	15DF1FC	AD	C211	VCEA9M1HW335M+ \	/ 3.3 50V Electrolytic	AB
⚠ D934	VHDRK14L+++-X	V	/ RK14L+++	AD	C212	VCEA9M1CW106M+ Y	/ 10 16V Electrolytic /	AB
D961	VHD1SS119//-1Y	V	1SS119	AA	C213	VCEA9M1HW225M+ Y	/ 2.2 50V Electrolytic	AB
D962	RH-EX0627GEZZY	V	Zener Diode	AA	C215	VCEA9M1HW105M+	/ 1 50V Electrolytic	AB
			(H725X, H730X/NZ)		C216	VCEA9M1HW105M+	/ 1 50V Electrolytic	AB
D963	RH-EX0631GEZZY	V	,	AA			(H725X, H730X/NZ)	
D971	RH-EX0613GEZZY		Zener Diode	AB	C217	VCEA9M0JW476M+ V		AB
D972	RH-EX0677GEZZY		Zener Diode	AC	C218	VCKYCY1CF104ZS \		AA
					C219			
IC901	RH-FX0001AJZZ		TCET1103G	AE		VCKYCY1CF104ZS \		AA
IC902	RH-FX0001AJZZ		TCET1103G	AE	C220	VCKYCY1CF104ZS \		AA
Q701	RH-PX0233GEZZ	V		AD	C221	VCEA9M1CW106M+		AB
Q702	RH-PX0233GEZZ		PT493FL2	AD	C223	VCKYCY1CF104ZS \		AA
⚠ VA903	RH-VX0048CEZZ	V	Varistor	AE	C227	VCKYCY1CF104ZS \		AA
					C228	VCEA9M1HW105M+ \	/ 1 50V Electrolytic	AB
	PACKAGE	ED (CIRCUITS		C252	VCEA0A0JW337M+ \	/ 330 6.3V Electrolytic /	AC
X501	RCRSB0204GEZZ+	- V	Crystal	AG	C253	VCKYCY1CF104ZS \	0.1 16V Ceramic A	AA
X502	RCRSB0232GEZZ+		,	AG	C301	VCEA9M0JW476M+	/ 47 6.3V Electrolytic	AB
X701	RCRSB0205GEZZ+		•	AM	C302	VCKYCY1CF104ZS \		AA
X701 X702			,	AD	C303	VCKYCY1EB103KS \		AA
X102	RCRSB0138GEZZ	V	Crystal	AD	C304	VCKYCY1EB103KS \		AA
	COULC AND T	D 4 I	NOTORMERO		C304			
	COILS AND T					VCKYCY1EB103KS \		AA
JA522	VP-XF101J0000Y	V	Peaking 100µH	AB	C306	VCKYCY1EB103KS \		AA
L102	VP-CF100K0000Y	V	Peaking 10µH	AB	C307	VCKYCY1EB103KS \		AA
L104	VP-MK101K0000+	V	Peaking 100µH	AB			(H725X, H730X/NZ)	
L111	VP-XF2R7K0000Y	V	Peaking 2.7µH	AB	C308	VCKYCY1EB103KS \	/ 0.01 25V Ceramic A	AA
L201	VP-XF221K0000+	V		AB			(H725X, H730X/NZ)	
	711 22 11100001	•	(A310X/NZ)		C309	VCKYCY1EB103KS \	/ 0.01 25V Ceramic A	AA
L201	VP-XF181K0000+	V	` ,	AB			(H725X, H730X/NZ)	
LZOI	VI -XI 1011(00001	v	(H725X, H730X/NZ)	AD	C310	VCKYCY1EB103KS \		AA
1.050	VD VE101K0000V	١./		ΛD			(H725X, H730X/NZ)	
L253	VP-XF101K0000Y	V	3 - 1	AB	C311	VCKYCY1HF103ZS \	,	AA
L301	VP-MK101K0000+	V	3 1	AB	C313	VCKYCY1HF103ZS \		AA
L302	VP-XF180K0000Y	V		AB				
L304	VP-XF120K0000+	V	Peaking 12µH	AB	C316	VCCCCY1HH180JS \	•	AA
			(H725X, H730X/NZ)		C317	VCCCCY1HH120JS \		AA
L351	VP-MK101K0000+	V	Peaking 100µH	AB	C318	VCCCCY1HH120JS \		AA
			(H725X, H730X/NZ)		C319	VCCCCY1HH270JS \	/ 27p 50V Ceramic A	AA
L501	VP-XF560K0000+	V	Peaking 56µH	AB			(A310X/NZ)	
L502	VP-XF101K0000+	V	• .	AB	C319	VCCCCY1HH3R0CS\	/ 3.0p 50V Ceramic A	AA
L503	VP-XF120K0000+	V	• !.	AB			(H725X, H730X/NZ)	
L602	VP-DF221K0000Y	V	• • • • • • • • • • • • • • • • • •	AB	C320	VCCCCY1HH3R0CS\		AA
	RCiLF0009AJZZ		Coil (A310X/NZ)	AK			(H725X, H730X/NZ)	
			,		C324	VCKYCY1HF1037S V	, ,	AA
<u> </u>	RCiLF0320AJZZ	V	(- ,	,	0324	VOICTOT IIII 10320	(A310X/NZ)	/\/\
L933	RCiLP0171CEZZ+	V		AD	Cane	\/CKVCV4HE4027C \	,	۸۸
L934	RCiLP0175CEZZ+	V		AD	C325	VCK1C11HF10323		AA
R133	VP-XF100K0000Y		Peaking 10µH	AB	0000	V00000V4111100010	(A310X/NZ)	Λ Λ
T601	RTRNH0098GEZZ	V	OSC. Transformer	ΑE	C326	VCCCCY1HH220JS \	•	AA
<u> 1</u> 1901	RTRNWA032WJZZ	V	Transformer	AK	_		(H725X, H730X/NZ)	
					C327	VCCCCY1HH150JS \	/ 15p 50V Ceramic A	AA
	CAPA	CIT	TORS				(H725X, H730X/NZ)	
C101	VCKYCY1HB221K9	S V	220p 50V Ceramic	AA	C328	VCCCCY1HH150JS \	/ 15p 50V Ceramic A	AA
C102			5600p 50V Ceramic	AA			(H725X, H730X/NZ)	
0.102	VOICEOTTIBOOLIC	•	(H725X, H730X/NZ)	, , , ,	C329	VCKYCY1CF104ZS \	/ 0.1 16V Ceramic A	AA
C103	V/CEA0A0 I\\/227M	. \/	,	ΛD			(H725X, H730X/NZ)	
	VCEA9A0JW227M-		,		C351	VCEA9M0JW107M+	,	AB
C105	VCEA0A0JW477M-		•		5551	. JE/ (31/100 VV 10/101 VIT	(H725X, H730X/NZ)	ر, ر
C106	VCKYCY1HF103ZS			AA	Cara	VCKYCY1AF105ZS \	,	Δ□
C107	VCKYCY1HF103ZS			AA	C352	VONTOTIANTUOES \		AB
C112	VCKYCY1CF104ZS			AA	00	1/01/1/01/11/51/55	(H725X, H730X/NZ)	Λ Λ
C113	VCEA9M1HW105M	+ V	1 50V Electrolytic	AB	C353	VUKYUY1HF103ZS \		AA
C114	VCCCCY1HH271JS	S V	270p 50V Ceramic	AA	-		(H725X, H730X/NZ)	
C115	VCCSD41HL470JY	V	47p 50V Ceramic	AA	C354	VCKYCY1HF103ZS \		AA
C163	VCEA9M1CW106M		•				(H725X, H730X/NZ)	
	. , , , , , ,	-	(H725X, H730X/NZ)		C356	VCCCCY1HH101JS \		AA
C201	VCEA9M0JW476M	+ V		AB			(H725X, H730X/NZ)	
C202	VCKYCY1CF104ZS		,	AA			,	
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Ref. No.	Part No.	*	Description	Code	Ref. No.	Part No.	Description	Code
C357	VCKYCY1CB104K	S V	0.1 16V Ceramic (H725X, H730X/NZ)	AB	C668	VCEA9M0JW336M+ \	/ 33 6.3V Electrolytic (H725X, H730X/NZ)	AB
C358	VCKYCY1CB104K	S V		AB	C669	VCEA9M1HW105M+ \	,	AB
C401	VCKYCY1HF103ZS	S V	0.01 50V Ceramic	AA	C670	VCEA9A1HW105M+ \	,	AB
C501	VCEA9M0JW107M		,		C671	VCEA9M1CW107M+ \		AB
C502 C503	VCKYCY1CF104ZS VCKYCY1CF104ZS			AA AA	C672	VCKYCY1CF224ZS \	,	AB
C504	VCEA9M1HW225M						(H725X, H730X/NZ)	
C505			0.022 25V Ceramic	AA	C673	VCEA9M0JW226M+ \	,	AB
C506	VCEA9M1HW474M		· · · · · · · · · · · · · · · · · · ·		0074	\/C\/\/C\/4\CE0047C\\	(H725X, H730X/NZ)	۸۵
C507 C508	VCKYCY1CF104ZS			AA ic AB	C674	VCKYCYTCF22425 V	0.22 16V Ceramic (H725X, H730X/NZ)	AB
C508	VCEA9M1HW475N VCKYD41CY103N			AB AB	C675	VCKYCY1CF104ZS \		AA
C510	VCCCCY1HH270J		27p 50V Ceramic	AA			(H725X, H730X/NZ)	
C511	VCKYCY1HF103ZS			AA	C676	VCEA9M0JW226M+ \		AB
C512	VCKYCY1HF103ZS			AA	C677	VCEA9M1CW106M+ \	(H725X, H730X/NZ) / 10 16V Electrolytic	AB
C513 C514	VCKYCY1HF103ZS VCKYCY1HF103ZS			AA AA	0077	VOLASIVITO VITOOIVIT	(H725X, H730X/NZ)	AD
C515	VCKYCY1HB331K			AA	C678	VCKYCY1HF103ZS \		AA
C516	VCEA9M1HW105M						(H725X, H730X/NZ)	
C517	VCEA9M1HW335M		,		C679	VCKYCY1CF224ZS \		AB
C518	VCKYCY1HF333ZS			AA	C681	\/CKVCV1HE1037S \	(H725X, H730X/NZ) ' 0.01 50V Ceramic	AA
C521 C522	VCCCCY1HH5R0C VCCCCY1HH120J		•	AA AA	C001	VORTOTTIF 10323 V	(H725X, H730X/NZ)	AA
C602	VCKYCY1EB103KS		'	AA	C682	VCKYCY1AF105ZS V	,	AB
C603	VCEA9M1CW106M						(H725X, H730X/NZ)	
C604	VCKYCY1HB821K			AA	C683	VCEA9M1CW107M+ \		AB
C605 C606	VCEA9M1CW106N		10 16V Electrolyti 4.7 50V Electrolyti		C684	VCCCCY1HH560JS \	(H725X, H730X/NZ) 56p 50V Ceramic	AA
C607	VCEA9M1HW475N VCEA9M1HW475M				0004	V000011111100000 V	(H725X, H730X/NZ)	701
C608	VCEA9M0JW226M				C685	VCCCCY1HH560JS V	•	AA
C610	VCKYCY1CF104ZS			AA	0700	\/OF A ON AO !\A/470N A . \	(H725X, H730X/NZ)	A D
C611	VCKYCY1CF104ZS			AA	C702 C703	VCEA9M0JW476M+ \ VCKYCY1CF104ZS \	,	AB AA
C617 C618	VCEA9M1CW476N VCKYCY1EB103KS		,	ic AB AA	C704	VCEA9M0JW476M+ \		AB
C619	VCKYCY1EB103KS			AA	C705	VCKYCY1CF104ZS \		AA
C620	VCEA9M1CW106M		_		C706	VCKYCY1CF104ZS \		AA
C621	VCQPYA2AA562J+			AC	C707 C708	VCCCCY1HH7R0DS \ VCCCCY1HH100DS \	•	AA AA
C622 C630	VCKYCY1HB102K		1000p 50V Ceramic 100p 50V Ceramic	AA AA	C709	VCCCCY1HH180JS \	•	AA
C631	VCCCCY1HH101J		•	AA	C710	VCCCCY1HH180JS \		AA
C632	VCCCCY1HH221J		220p 50V Ceramic	AA	C713	VCKYCY1HF103ZS \		AA
C634	VCEA9M1HW475M				C714	VCCCCY1HH330JS \		AA
C651	VCEA9M1HW475N	/I+ V	4.7 50V Electrolyti (H725X, H730X/NZ)	ic AB	C715 C716	VCCCCY1HH101JS \ VCKYCY0JB105KY \		AA AC
C653	VCEA9M1CW106M	1+ V		ic AB	C717	VCKYCY0JF105ZS V		AB
			(H725X, H730X/NZ)		C718	VCKYCY1HF103ZS \		AA
C654	VCEA9M1CW106M	1+ V		ic AB	C721	VCKYCY1HF103ZS \	/ 0.01 50V Ceramic	AA
C655	VCEA9M1CW106M	4. \/	(H725X, H730X/NZ) 10 16V Electrolyti	ic AB	C722 C723	VCEA9M0JW107M+ \	/ 100 6.3V Electrolytic / 0.047 50V Ceramic	AB AA
C033	VCLASIVITCVVTOOIV	ı+ v	(H725X, H730X/NZ)	IC AD	C724		0.047 50V Ceramic	AA
C656	VCKYCY1HF473ZS	S V	0.047 50V Ceramic	AA	C725		0.01 50V Ceramic	AA
			(H725X, H730X/NZ)		C726		/ 1000p 50V Ceramic	AA
C657	VCKYCY1EB153KS	s v	0.015 25V Ceramic	AA	C728 C729		0.01 50V Ceramic 2200p 50V Ceramic	AA AA
C658	VCEA9M0JW336M	. \/	(H725X, H730X/NZ) 33 6.3V Electrolyti	ic AB	C730		' 0.01 50V Ceramic	AA
0000	VOLASIVIOSVVOSOIVI	· v	(H725X, H730X/NZ)	ic Ab	C731	VCKYCY1HF103ZS V	0.01 50V Ceramic	AA
C659	VCEA9M1HW105M	1+ V		ic AB	C732	VCEA9M0JW226M+ \		AB
0000	\	,	(H725X, H730X/NZ)		C733 C734		0.022 50V Ceramic 1000p 50V Ceramic	AA
C660	VCEA9A1HW105M	I+ V	1 50V Electrolyti (H725X, H730X/NZ)	ic AB	C734		' 0.01 50V Ceramic	AA AA
C661	VCEA9M1HW475M	1+ V	,	ic AB	C736	VCCCCY1HH680JS V		AA
000.			(H725X, H730X/NZ)		C738		220p 50V Ceramic	AA
C663	VCEA9M1CW106M	1+ V	,	ic AB	C741	VCKYCY1CF104ZS \		AA
0004	\/CE	4. \/	(H725X, H730X/NZ)		C742 C743	VCEA9M0JW226M+ \ VCKYCY1CF104ZS \		AB AA
C664	VCEA9M1CW106N	/I+ V	10 16V Electrolyti (H725X, H730X/NZ)	ic AB	C744		2200p 50V Ceramic	AA
C665	VCEA9M1CW106M	1+ V	,	ic AB	C745		6800p 50V Ceramic	AB
			(H725X, H730X/NZ)		C750	VCEA2A1VW107M+ \		AC
C666	VCKYCY1HF473ZS	S V	0.047 50V Ceramic	AA	C751 C752	VCKYCY1HF103ZS \ VCKYCY1HF103ZS \		AA AA
C667	VCKYCY1ER153K9	s \/	(H725X, H730X/NZ) 0.015 25V Ceramic	AA	C752 C754	VCKYCY1HF103ZS \		AA
0001	, OKTOTILD IOSK	. v	(H725X, H730X/NZ)	$\Delta\Delta$	C755	VCKYCY1HF103ZS \		AA
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Ref. No.	Part No.	*	Description	Cod	de	Ref. No.	Part No.	*	Description C	Code
C774 C783	VCEA9M1CW336M VCKYCY1HB102KS		33 16V Electroly 1000p 50V Ceramic		AB AA	R203	VRS-CY1JF562JS	V	5.6k 1/16W Metal Oxide (A310X/NZ)	AA
C784	VCKYCY1HB102KS				AA	R203	VRS-CY1JF822JS	V	,	AA
C785	VCKYCY1HF103ZS				AΑ				(H725X, H730X/NZ)	
C786	VCEA9M1HW105M				AB	R207	VRS-CY1JF102JS	V	1k 1/16W Metal Oxide	
C787	VCEA0A0JW477M-		-		AC	R211 R212	VRS-CY1JF153JS	V	15k 1/16W Metal Oxide	
C788 C791	RC-EZ0425GEZZ VCKYCY1CF104ZS	V . V	Capacitor 0.1 16V Ceramic		AE AA	R212 R225	VRS-CY1JF153JS VRS-CY1JF750JS	-	15k 1/16W Metal Oxide 75 1/16W Metal Oxide	
C797	VCEA9A0JW476M-				AB	R227	VRS-CY1JF750JS	V		
C805	VCEA9M0JW476M		,		AB	R252	VRD-RA2EE331JY	V		AA
⚠ C901	RC-FZ028SCEZZ	V	0.1 AC250VMylar		٩D	R253	VRS-CY1JF101JS	V	100 1/16W Metal Oxide	
<u> </u>	RC-KZ0105GEZZ		2200p AC250VCeramic		٩D	R254	VRS-CY1JF183JS	V		
	RC-EZ0437GEZZ VCFYAA2GA473K+	V	68 200V Electrolyt		AK AE	R282	VRS-CY1JF750JS	V	75 1/16W Metal Oxide	AA
C907	RC-KZ0112CEZZ+		100p 500V Ceramic		AE AB	R286	VRS-CY1JF470JS	V	(H725X, H730X/NZ) 47 1/16W Metal Oxide	AA
C911	VCQYTA1HM272K-				AB	R301	VRS-CY1JF473JS	V		
C914	VCQYTA1HM152K-				AB	R302	VRS-CY1JF561JS	V	560 1/16W Metal Oxide	
▲ C931	VCEA0M1JW476M		,		AC	R303	VRS-CY1JF392JS	V	3.9k 1/16W Metal Oxide	
<u>∧</u> C932	VCEA0A1VW477M		,		AB	R309	VRS-CY1JF222JS	V	2.2k 1/16W Metal Oxide	
<u>↑</u> C933	RC-EZ0439GEZZ	V	2200 16V Electrolyt		AF	R312	VRS-CY1JF681JS	V	680 1/16W Metal Oxide	AA
	RC-EZ1075CEZZ VCEA0A1EW107M	_ V _ ∨	2200 10V Electrolyt 100 25V Electrolyt		AF AC	R313	VRS-CY1JF333JS	V	(H725X, H730X/NZ) 33k 1/16W Metal Oxide	ΔΔ
∴ C939	VCEA0A0JW108M-		,		AC	11010	VIXO-0110100000	٧	(H725X, H730X/NZ)	7.7.
C961	VCEA9M1CW106M		,		AB	R315	VRS-CY1JF682JS	V	6.8k 1/16W Metal Oxide	AA
C962	VCEA9M1CW106M	l+ V	10 16V Electroly	tic .	AB				(H725X, H730X/NZ)	
C967	VCEA9M1CW476M		,		AB	R350	VRS-CY1JF000JS	V		AA
C972	VCKYCY1HF103ZS				AA A	D054	\/DD DA0DE470 I\/	٠,,	(A310X/NZ)	
C8001 C8002	VCKYCY1HF103ZS VCKYCY1HF103ZS				AA AA	R351	VRD-RA2BE473JY	V	47k 1/8W Carbon (H725X, H730X/NZ)	AA
C8002	VCKYCY1HF103ZS				AA	R401	VRS-CY1JF562JS	V	5.6k 1/16W Metal Oxide	AA
C8004			1000p 50V Ceramic		AΑ	11101	7110 0110100200	٠	(H725X, H730X/NZ)	701
C8005	VCEA9M1CW106M				AB	R402	VRS-CY1JF472JS	V	4.7k 1/16W Metal Oxide	AA
C9335	VCEA9M1HW105M		,		AB				(H725X, H730X/NZ)	
C9336	VCEA9M1HW105M	l+ V	1 50V Electroly	tic .	AB	R501	VRS-CY1JF102JS	V	1k 1/16W Metal Oxide	
	RES	CT/	npe			R502	VRS-CY1JF273JS	V		
JA228	VRD-RA2BE331JY		330 1/8W Carbon		AΑ	R504 R505	VRS-CY1JF221JS VRS-CY1JF224JS	V	220 1/16W Metal Oxide 220k 1/16W Metal Oxide	
R19	VRS-CY1JF000JS	V	0 1/16W Metal Ox		AA	R601	VRS-CY1JF183JS	V		
R40	VRS-CY1JF000JS	V			AΑ	R602	VRS-CY1JF274JS	V		
			(A310X/NZ)			R603	VRS-CY1JF221JS	V	220 1/16W Metal Oxide	
R43	VRS-CY1JF000JS	V	0 1/16W Metal Ox	ide A	AΑ	R604	VRS-CY1JF473JS		47k 1/16W Metal Oxide	
D 1000	VDC CV4 IE000 IC	١.,	(H725X, H730X/NZ)	:-1	۸ ۸	R605	VRS-CY1JF153JS	V		
RJ902 RJ904	VRS-CY1JF000JS VRS-CY1JF000JS	V	0 1/16W Metal Ox 0 1/16W Metal Ox		AA AA	R606 R609	VRS-CY1JF273JS VRS-CY1JF473JS	V V	47k 1/16W Metal Oxide	
RJ907	VRS-CY1JF000JS	v	0 1/16W Metal Ox		AΑ	R610	VRS-CY1JF183JS	V		
RJ908	VRS-CY1JF000JS	V	0 1/16W Metal Ox			R611	VRS-CY1JF393JS	V	39k 1/16W Metal Oxide	
			(H725X, H730X/NZ)						(A310X/NZ)	
RJ912	VRS-CY1JF000JS	V	0 1/16W Metal Ox	ide A	AΑ	R611	VRS-CY1JF101JS	V	100 1/16W Metal Oxide	AA
D 1004	VDC CV4 IE000 IC	١.,	(H725X, H730X/NZ)	:-1	۸ ۸	D040	VDC CV4 IE450 IC	١,,	(H725X, H730X/NZ)	^ ^
RJ931	VRS-CY1JF000JS	V	0 1/16W Metal Ox (H725X, H730X/NZ)	iae <i>F</i>	4A	R612	VRS-CY1JF153JS	V	15k 1/16W Metal Oxide (A310X/NZ)	AA
RJ932	VRS-CY1JF000JS	V	0 1/16W Metal Ox	ide A	AΑ	R615	VRD-RA2BE473JY	V	47k 1/8W Carbon	AA
R104	VRD-RA2BE102JY		1k 1/8W Carbon		AΑ	R616	VRS-CY1JF183JS		18k 1/16W Metal Oxide	
R105	VRD-RA2BE102JY	V	1k 1/8W Carbon	A	AA	R618	VRS-CY1JF473JS	V	47k 1/16W Metal Oxide	AA
R111	VRS-CY1JF153JS	V	15k 1/16W Metal Ox		AA	R619	VRS-CY1JF470JS		47 1/16W Metal Oxide	
R112	VRS-CY1JF153JS	V			AA	R620	VRS-CY1JF153JS		15k 1/16W Metal Oxide	
R127	VRS-CY1JF000JS	V	0 1/16W Metal Ox 8.2k 1/8W Carbon		AA ^ ^	R621	VRD-RA2EE4R7JY		4.7 1/4W Carbon 27k 1/16W Metal Oxide	AA
R150	VRD-RA2BE822JY	V	(H725X, H730X/NZ)	,	AΑ	R623	VRS-CY1JF273JS	V	(A310X/NZ)	AA
R152	VRD-RA2BE561JY	V	560 1/8W Carbon	-	AΑ	R623	VRS-CY1JF223JS	V	22k 1/16W Metal Oxide	AA
R153	VRS-CY1JF473JS	V			AΑ			-	(H725X, H730X/NZ)	
R154	VRS-CY1JF822JS	V	8.2k 1/16W Metal Ox	ide /	AΑ	R624	VRS-CY1JF472JS	V	4.7k 1/16W Metal Oxide	AA
			(A310X/NZ)			R625	VRS-CY1JF222JS		2.2k 1/16W Metal Oxide	
R155	VRD-RA2BE224JY		220k 1/8W Carbon		AA ^ ^	R626	VRS-CY1JF101JS		100 1/16W Metal Oxide	
R164 R170	VRS-CY1JF000JS VRS-CY1JF153JS	V	0 1/16W Metal Ox 15k 1/16W Metal Ox		AA AA	R627 R631	VRS-CY1JF392JS VRS-CY1JF000JS		3.9k 1/16W Metal Oxide 0 1/16W Metal Oxide	
KITO	VK3-C110F15555	V	(H725X, H730X/NZ)	iue /	~~	R632	VRS-CY1JF104JS		100k 1/16W Metal Oxide	
R171	VRD-RA2BE153JY	V	15k 1/8W Carbon	A	AΑ	R633	VRD-RA2BE104JY		100k 1/8W Carbon	AA
		•	(H725X, H730X/NZ)	•		R634	VRS-CY1JF000JS		0 1/16W Metal Oxide	
R175	VRS-CY1JF222JS	V	2.2k 1/16W Metal Ox	ide A	AΑ	R637	VRS-CY1JF682JS		6.8k 1/16W Metal Oxide	
.	\/D0 0\// !====:		(H725X, H730X/NZ)			R638	VRD-RA2BE561JY	V		AA
R176	VRS-CY1JF222JS	V	2.2k 1/16W Metal Ox	ide A	AΑ	R653	VRS-CY1JF473JS	V	47k 1/16W Metal Oxide	AA
R201	VRS-CY1JF682JS	V	(H725X, H730X/NZ) 6.8k 1/16W Metal Ox	ide /	ΔΔ	R654	VRS-CY1JF682JS	\/	(H725X, H730X/NZ) 6.8k 1/16W Metal Oxide	ΔΔ
R202	VRS-CY1JF182JS		1.8k 1/16W Metal Ox			11004	VINO OT 101 00203	V	(H725X, H730X/NZ)	$\wedge \wedge$
				'					,	

Ref. No.	Part No.	*	Description	Code	F	Ref. No.	Part No.	*	Description Code	ie
R655	VRD-RA2BE473JY	V	47k 1/8W Carbon	AA		R730	VRS-CY1JF101JS		100 1/16W Metal Oxide A	
R656	VRS-CY1JF682JS	V	(H725X, H730X/NZ) 6.8k 1/16W Metal Oxid	e AA		R731 R732	VRS-CY1JF473JS VRD-RA2BE154JY		47k 1/16W Metal Oxide Av 150k 1/8W Carbon Av	
Deez	VDC CV4 IF404 IC	١./	(H725X, H730X/NZ)			R733	VRS-CY1JF105JS		1M 1/16W Metal Oxide A	
R657	VRS-CY1JF101JS	V	100 1/16W Metal Oxid (H725X, H730X/NZ)	e AA		R735 R736	VRS-CY1JF104JS VRS-CY1JF822JS		100k 1/16W Metal Oxide Av 8.2k 1/16W Metal Oxide Av	
R658	VRS-CY1JF223JS	V	22k 1/16W Metal Óxid	e AA		R737	VRS-CY1JF103JS		10k 1/16W Metal Oxide A	
R659	VRS-CY1JF472JS	V	(H725X, H730X/NZ) 4.7k 1/16W Metal Oxid	e AA		R738 R739	VRS-CY1JF103JS VRD-RA2BE102JY		10k 1/16W Metal Oxide Av 1k 1/8W Carbon Av	
			(H725X, H730X/NZ)			R741	VRS-CY1JF123JS	V	12k 1/16W Metal Oxide A	λA
R660	VRS-CY1JF471JS	V	470 1/16W Metal Oxid (H725X, H730X/NZ)	e AA		R742 R743	VRS-CY1JF223JS VRS-CY1JF563JS	V V	22k 1/16W Metal Oxide Av 56k 1/16W Metal Oxide Av	
R663	VRD-RA2BE473JY	V	47k 1/8W Carbon	AA		R744	VRS-CY1JF223JS	V	22k 1/16W Metal Oxide A	λA
R664	VRS-CY1JF682JS	٧		e AA		R745 R746	VRD-RA2BE102JY VRS-CY1JF182JS	V	1k 1/8W Carbon A. 1.8k 1/16W Metal Oxide A.	λA
R665	VRS-CY1JF473JS	٧	(H725X, H730X/NZ) 47k 1/16W Metal Oxid	e AA		R747 R748	VRS-CY1JF681JS VRS-CY1JF000JS	V	680 1/16W Metal Oxide A/ 0 1/16W Metal Oxide A/	
R666	VRS-CY1JF682JS	V	(H725X, H730X/NZ) 6.8k 1/16W Metal Oxid	e AA		R750 R751	VRD-RA2BE473JY VRD-RA2BE562JY		47k 1/8W Carbon A/ 5.6k 1/8W Carbon A/	
Deez	VDD DAODE404 IV	١./	(H725X, H730X/NZ)	ΛΛ		R752	VRD-RA2BE103JY		10k 1/8W Carbon A	
R667	VKD-KAZBE101JY	V	100 1/8W Carbon (H725X, H730X/NZ)	AA		R754 R755	VRD-RA2EE181JY VRD-RA2BE103JY		180 1/4W Carbon Av 10k 1/8W Carbon Av	
R668	VRS-CY1JF223JS	V	22k 1/16W Metal Óxid	e AA		R756	VRS-CY1JF103JS	V	10k 1/16W Metal Oxide A	
R669	VRS-CY1JF472JS	V	(H725X, H730X/NZ) 4.7k 1/16W Metal Oxid	e AA		R760 R771	VRG-SC2EB1R0J+ VRS-CY1JF103JS		1 1/4W Fuse ResistorA 10k 1/16W Metal Oxide A	
			(H725X, H730X/NZ)			R781	VRS-CY1JF103JS	V	10k 1/16W Metal Oxide A	λA
R670	VRS-CY1JF471JS	V	470 1/16W Metal Oxid (H725X, H730X/NZ)	e AA		R782 R783	VRS-CY1JF103JS VRD-RA2BE102JY		10k 1/16W Metal Oxide Av 1k 1/8W Carbon Av	
R671	VRS-CY1JF000JS	V	,	e AA		R785	VRD-RA2BE391JY	V	390 1/8W Carbon A	
R672	VRS-CY1JF221JS	\/	(H725X, H730X/NZ) 220 1/16W Metal Oxid	ο ΛΛ		R786 R788	VRS-CY1JF473JS VRS-CY1JF104JS		47k 1/16W Metal Oxide Av 100k 1/16W Metal Oxide Av	
KU12	VK3-C1 131 22 133	V	(H725X, H730X/NZ)	e AA		R789	VRD-RA2BE391JY	V		
R673	VRS-CY1JF221JS	V	220 1/16W Metal Oxid	e AA		R790	VRS-CY1JF473JS		47k 1/16W Metal Oxide A	ιA
R674	VRD-RA2BE273JY	V	(H725X, H730X/NZ) 27k 1/8W Carbon	AA		R792 R796	VRS-CY1JF104JS VRD-RM2HD271JY		100k 1/16W Metal Oxide 270 1/2W Carbon A	ιA
R675	VRS-CY1JF822JS	\/	(H725X, H730X/NZ) 8.2k 1/16W Metal Oxid	ο ΔΔ		R809 R811	VRD-RA2BE101JY VRS-CY1JF183JS		100 1/8W Carbon Av 18k 1/16W Metal Oxide Av	
	VIXO-01 101 02200	٧	(H725X, H730X/NZ)	C AA		R813	VRS-CY1JF272JS		2.7k 1/16W Metal Oxide A	
R676	VRS-CY1JF102JS	V	1k 1/16W Metal Oxid (H725X, H730X/NZ)	e AA		R814 R815	VRS-CY1JF332JS VRS-CY1JF000JS		3.3k 1/16W Metal Oxide Av 0 1/16W Metal Oxide Av	
R677	VRS-CY1JF473JS	V	47k 1/16W Metal Oxid	e AA					(A310X/NZ, H725X)	
R678	VRS-CY1JF333JS	V	(H725X, H730X/NZ) 33k 1/16W Metal Oxid	e AA		R815	VRS-CY1JF472JS	V	4.7k 1/16W Metal Oxide A/ (H730X/NZ)	٠A
R685	VRS-CY1JF272JS	V	(H725X, H730X/NZ) 2.7k 1/16W Metal Oxid	e AA		R816	VRD-RA2BE822JY	V	8.2k 1/8W Carbon A/ (A310X/NZ, H725X)	λA
R686	VRS-CY1JF272JS	V	(H725X, H730X/NZ) 2.7k 1/16W Metal Oxid	e AA		R817	VRD-RA2BE822JY	V	8.2k 1/8W Carbon A/ (H730X/NZ)	λA
R689	VRS-CY1JF272JS		2.7k 1/16W Metal Oxid			R818	VRS-CY1JF472JS	V	4.7k 1/16W Metal Oxide A	λA
R690	VRS-CY1JF101JS	٧	(H725X, H730X/NZ) 100 1/16W Metal Oxid	e AA		R818	VRS-CY1JF000JS	V	(A310X/NZ, H725X) 0 1/16W Metal Oxide A	ιA
R691	VRD-RA2BE102JY	\/	(H725X, H730X/NZ) 1k 1/8W Carbon	AA		R821	VRS-CY1JF183JS	V	(H730X/NZ) 18k 1/16W Metal Oxide A/	Δ
R701	VRD-RA2BE104JY			AA		R823	VRS-CY1JF272JS		2.7k 1/16W Metal Oxide A	
R702	VRS-CY1JF102JS	V	1k 1/16W Metal Oxid	e AA		R824	VRS-CY1JF332JS	V	3.3k 1/16W Metal Oxide A	ŀΑ
R704	VRS-CY1JF153JS	V	15k 1/16W Metal Oxid	e AA		R825	VRS-CY1JF472JS		4.7k 1/16W Metal Oxide A	٠A
R705	VRS-CY1JF153JS		15k 1/16W Metal Oxid			R826	VRS-CY1JF822JS		8.2k 1/16W Metal Oxide A	
R706	VRS-CY1JF564JS	V				R827	VRD-RA2BE333JY			A
R708 R709	VRS-CY1JF332JS VRS-CY1JF222JS		3.3k 1/16W Metal Oxid 2.2k 1/16W Metal Oxid			R828 R835	VRD-RA2BE563JY VRD-RA2BE103JY			AA AA
R710	VRS-CY1JF822JS		8.2k 1/16W Metal Oxid			R836				λA
		•	(A310X/NZ)			R837	VRD-RA2BE103JY			λA
R713	VRS-CY1JF102JS	V	1k 1/16W Metal Oxid	e AA		R841	VRD-RA2BE221JY			λA
R714	VRS-CY1JF223JS	V	22k 1/16W Metal Oxid	e AA		R842	VRD-RA2BE221JY	V	220 1/8W Carbon A	λA
R715	VRS-CY1JF472JS		4.7k 1/16W Metal Oxid			R843				ŀΑ
R716	VRS-CY1JF182JS		1.8k 1/16W Metal Oxid			R858	VRD-RA2BE122JY	V		λA
R717 R718	VRS-CY1JF123JS		12k 1/16W Metal Oxid 56k 1/16W Metal Oxid			D077	VDC CV4 IE404 IC	١,,	(H730X/NZ) 100k 1/16W Metal Oxide A/	. ^
	VRS-CY1JF563JS				A	R877	VRS-CY1JF104JS RR-HZ0014GEZZY			
R719 R721	VRS-CY1JF183JS VRS-CY1JF223JS		18k 1/16W Metal Oxid 22k 1/16W Metal Oxid			R901 R902				λE
R722	VRS-CY1JF473JS		47k 1/16W Metal Oxid		<u> </u>	R904	RR-SZ0007GEZZ			NA NB
R724	VRS-CY1JF104JS		100k 1/16W Metal Oxid			R905				λA
R725	VRS-CY1JF332JS		3.3k 1/16W Metal Oxid			R906				ιB
R726	VRS-CY1JF473JS		47k 1/16W Metal Oxid			R907	VRN-VV3DBR56J	V	0.56 2W Metal Film A	λA
R727	VRS-CY1JF154JS		150k 1/16W Metal Oxid			R909	VRS-CY1JF563JS		56k 1/16W Metal Oxide A	
R728	VRS-CY1JF332JS	V	3.3k 1/16W Metal Oxid	e AA		R910	VKD-RM2HD152JY	V	1.5k 1/2W Carbon A/	AA

R	ef. No.	Part No.	*	Description (Code	Ref. No.	Part No.	*	Description C	ode
	R911	VRS-CY1JF101JS	V	100 1/16W Metal Oxide	. AA	W8002	PSHEP0349AJZZ	V	Deffusion Sheet	AC
	R914	VRS-CY1JF224JS	V	220k 1/16W Metal Oxide	· AA					
	R916	VRS-CY1JF333JS	V	33k 1/16W Metal Oxide	· AA					
	R917	VRD-RA2BE223JY	V	22k 1/8W Carbon	AA		DUNTKI	B10	6 I Ev6/v7	
	R930	VRD-RA2BE102JY	V	1k 1/8W Carbon	AA		Opera	atio	n Unit	
	R931	VRS-CY1JF561JS	V	560 1/16W Metal Oxide	· AA		Ороло		· Oille	
	R932	VRD-RA2BE331JY	V	330 1/8W Carbon	AA		DI	ODE	= e	
	R933	VRS-CY1JF122JS	V	1.2k 1/16W Metal Oxide	: AB	D881	RH-PX0448AJZZ+	_	PhotoDiode	AC
	R934	VRS-CY1JF152JS	V	1.5k 1/16W Metal Oxide	· AA	D00 I	KIT-FAU440AJZZ+	V	(H730X/NZ)	AC
	R935	VRS-CY1JF102JS		1k 1/16W Metal Oxide	· AA				(11/30/0142)	
	R936	VRD-RA2BE101JY		100 1/8W Carbon	AA		RES	IST	ORS	
	R938	VRS-CY1JF000JS	V			R881	VRS-CY1JF103JS		10k 1/16W Metal Oxide	ΛΛ
	R941	VRS-CY1JF273JS		27k 1/16W Metal Oxide		R882	VRS-CY1JF103JS		10k 1/16W Metal Oxide	
	R942	VRS-CY1JF104JS	-	100k 1/16W Metal Oxide		R883	VRS-CY1JF223JS		22k 1/16W Metal Oxide	
	R943	VRD-RA2BE152JY		1.5k 1/8W Carbon	AA	1,003	VIXO-0110122000	٧	ZZK 1/1000 Metal Oxide	$\Delta\Delta$
	R961	VRD-RA2BE561JY	V	560 1/8W Carbon	AA		MISCELLAI	VEC	IIS PARTS	
	D004	\/DD D 4 0D E 000 I\/		(A310X/NZ)		S881	QSW-K0004AJZZ+			AB
	R961	VRD-RA2BE680JY	V	68 1/8W Carbon	AA	S882	QSW-K0004AJZZ+			AB
	Dooo	\/DD DA0EE400 I\/	١,,	(H725X, H730X/NZ)		S883			Switch, REC (H730X/NZ	
	R962	VRD-RA2EE180JY	V		AA	S884	QSW-K0004AJZZ+		Switch, REW	AB
	Doco	VDD DMOUDCOO IV	١,,	(H725X, H730X/NZ)	Λ Λ	0004	QUVINOUUTAUZZI	٧	(A310X/NZ, H725X)	AD
	R963	VRD-RM2HD680JY	V	68 1/2W Carbon	AA	S885	QSW-K0004AJZZ+	V	,	') AB
	Doca	\/DD DA0EE470 IV	١,,	(A310X/NZ)	Λ Λ	S886	QSW-K0004AJZZ+		Switch, FF (AH975W)	AB
	R963	VRD-RA2EE470JY	V		AA	0000	Q011 11000 11 1022 1	٠	(A310X/NZ, H725X)	,,,,
	R965	VRD-RA2BE103JY	١/	(H725X, H730X/NZ) 10k 1/8W Carbon	AA	S887	QSW-K0004AJZZ+	V	,	AB
	R966	VRS-CY1JF103JS		10k 1/16W Metal Oxide		SC881	QSOCZ0450CEZZ		- ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	AC
	R967	VRD-RA2EE391JY	-		AA					
	R970	VRS-CY1JF222JS		2.2k 1/16W Metal Oxide						
	R971			470 1/2W Carbon	AA		DUNTK	B10	OTTEV5	
	R973			33k 1/8W Carbon	AA		BACKI	IGI	4T Unit	
	R8001	VRS-CY1JF472JS		4.7k 1/16W Metal Oxide			BAOIL	_,0,	11 01	
	R8002	VRS-CY1JF472JS		4.7k 1/16W Metal Oxide						
	R8003	VRS-CY1JF472JS		4.7k 1/16W Metal Oxide			TRAN			
	R8004	VRS-CY1JF473JS		47k 1/16W Metal Oxide		Q851	VS2PD601AR/-1Y		2PD601AR	AB
	R8005	VRS-CY1JF000JS	V			Q852	VS2PD601AR/-1Y	V	2PD601AR	AB
							DI	~ D.	-0	
		MISCELLAN	IEO	US PARTS		D0054		ODE	-	^ -
\triangle	ACC901	QACCL3004AJZZ	V	AC Cord	ΑT	D8854 D8855	RH-PX0433GEZZ+ RH-PX0433GEZZ+			AF AF
\triangle	F901	QFS-C2025CEZZ		Fuse, T2.0A/250V	AD	D0000	KH-FAU433GEZZ+	V	Photoblode	AF
	FH901	QFSHD1017CEZZ+			AC		RES	ICT	OBS	
\triangle	FH902	QFSHD1018CEZZ+			AC	R8853	VRD-RA2BE271JY			AA
	FB701	RBLN-0090GEZZY			AB	R8854	VRD-RA2BE331JY			AA
	FB901	RBLN-0090GEZZY			AB	R8855	VRS-CY1JF223JS		22k 1/16W Metal Oxide	
	FB903	RBLN-0090GEZZY	V		AB	R8856	VRS-CY1JF223JS	V		
	FB931	RBLN-0090GEZZY			AB	R8857	VRD-RA2BE271JY			AA
	JA373			Ferrite Bead (H730X/NZ)		R8858			330 1/8W Carbon	AA
	JA769	RBLN-0090GEZZY		Ferrite Bead (H730X/NZ)		110000	VIVD TV IZDEOUTOT	٧	000 170W Galbell	701
	J201	QJAKH0011AJZZ		Rear AV Jack (H730X/NZ	,		MISCELLAI	VEC	US PARTS	
	J201	QJAKL0006AJZZ	V	Rear AV Jack	AL	P883	QPLGZ0457GEZZ			AD
	J202	QJAKGA002WJZZ	\/	(H725X, H730X/NZ) Front AV Jack	AF	1 000	QI LOZO+37 OLZZ	٧	riug, apin(Aivi)	AD
	J202	QJANGAUUZWJZZ	V	(H725X, H730X/NZ)	Al					
	LC8001	RLCDDA005WJZZ	V		AN		DUNTKI	B11	1TE v1/v2	
	P701	QPLGZ1283GEZZ	V		AE		NICAN	W.C	D Unit	
	P809	QPLGN0459REZZ	V		AG		NICAN	I/IG	K Ullit	
\wedge	P901	QPLGN0269GEZZ	V	O ,	AB		INTEGRAT	ED	CIRCUITS	
	P1701	QPLGZ0809REZZ	V	. 9	AC	IC1701			MSP3407G-QG-B8	AS
			-	(H725X, H730X/NZ)		101701	VI IIIVIOI 34070-1Q	v	(H725X, H730X)	70
	TP201	QPLGN0447REZZ	V	Plug, 4pin(TP201-4)	AA	IC1701	VHIMSP3417G-10	V	MSP3417G-QG-B8	AY
		RRMCU0086GEZZ			AQ	101701	VIIIIVIOI OTITO TQ	٧	(H730NZ)	/ ()
	S701	QSW-F0042AJZZ	V	Switch	AG				(11700142)	
	S704	QSW-RA001WJZZ	V	Switch	AF		PACKAGI	FD (CIRCUITS	
	S801	QSW-K0004AJZZ+	V	Switch	AB	X1701	RCRSB0249GEZZ-			AF
	S802	QSW-K0004AJZZ+	V	Switch	AB	7(1701	NONOBOZ-30CZZ		Oryotal	7 (1
	S803	QSW-K0004AJZZ+	V	Switch	AB		COILS AND T	PΔ	NSEORMERS	
	S804	QSW-K0004AJZZ+	V	Switch	AB	L1703	VP-XF100J0000+		Peaking 10µH	AA
	S805	QSW-K0004AJZZ+		Switch	AB	L1703 L1704	VP-XF100J0000+ VP-XF100J0000Y		Peaking 10µH	AB
	S806	QSW-K0004AJZZ+		Switch	AB	L17U4	v i -/\i	V	ι σακιτιά τομιτ	ΛD
	S807	QSW-K0004AJZZ+		Switch	AB		CAPA	רו	TORS	
	S808	QSW-K0004AJZZ+		Switch	AB	C1704	_	_		AA
	SC301	QSOCNA006WJZZ			AD	C1701	VCCSD41HL220JY			AA AA
	SC601	QSOCN0611REN1		Socket, 6pin(AA)	AC	C1702 C1704				AA AA
	SC602	QSOCZ0293GEZZ	V		AC		VCEA9M1CW106M			AB
	SC803	QSOCZ0457GEZZ	V	Socket, 6pin(AM)	AC	C1705	V OEMBIVITOVV TUBIV	ı+ V	10 10 Electrolytic	ΑĎ

Ref. No.	Part No.	*		escription	Co	de	Ref. No.	Part No.	*	Description	Code
C1706	VCKYCY1HF103Z	ΥV	0.01	50V Ceramio	C /	AA					
C1707	VCEA9M1CW106I			16V Electrol		AB					
C1708	VCEA9M0JW226N	Л+ V	22	6.3V Electrol		AB					
C1709	VCEA9M1AW226I	M+ V	22	10V Electrol	ytic	AB					
C1710	VCCCCY1HH5R0	CYV	5.0p	50V Ceramio	c /	AΑ					
C1711	VCCCCY1HH6R0	DYV	6.0p	50V Ceramio	c /	AΑ					
C1712	VCKYCY1HF103Z	ΥV	0.01	50V Ceramio	C /	AΑ					
C1713	VCKYCY1HF103Z	ΥV	0.01	50V Ceramio	C /	AΑ					
C1714	VCEA9M1HW105I	M+ V	1	50V Electrol	ytic	AB					
C1715	VCKYCY1HF103Z	ΥV	0.01	50V Ceramio	c /	AΑ					
C1718	VCEA9M0JW226N	Л+ V	22	6.3V Electrol	ytic	AB					
C1720	VCCCCY1HH470	JY V	47p	50V Ceramio	C /	AΑ					
C1723	VCEA9M1CW106I	M+ V	10	16V Electrol	ytic	AB					
C1735	VCKYCY1HB122k	Y Y	1200p	50V Ceramio	C /	AΑ					
C1738	VCKYCY1HB122k			50V Ceramic	C /	AΑ					
C1770	VCEA9M1CW106I	M+ V	10	16V Electrol	ytic	AB					
C1771	VCEA9M1CW106I	M+ V	10	16V Electrol	ytic	AB					
	RES	SIST	ORS								
R1703	VRS-CY1JF473JY	′ V	47k 1	/16W Metal O	xide /	AΑ					
R1710	VRD-RA2BE101J	Y V	100 1	/8W Carbon	1	AA					
R1711	VRD-RA2BE101J	ΥV	100 1	/8W Carbon	1	AA					
R1714	VRS-CY1JF102JY	V	1k 1	/16W Metal O	xide /	AΑ					
R1720	VRS-CY1JF103JY	V	10k 1	/16W Metal O	xide /	AΑ					
R1723	VRS-CY1JF103JY	V	10k 1	/16W Metal O	xide /	AΑ					
	MISCELLA	NEC	US PA	RTS							
SC1701	QSOCZ0809REZZ		Socket		A	AC					

Ref. No. Part No. Description Code Ref. No. Part No. Description Code

MECHANISM CHASSIS PARTS

1	LBNDK1021AJZZ	٧	Tension Band Ass'y	AC
2	LBOSZ1022AJZZ	V	Tension Arm Boss	AB
4	LBOSZ1006AJZZ	V	Cassette Stay L	AD
5	LCHSM0186AJZZ	V	Main Chassis Ass'y (AH770A/L/M)	AQ
5	LCHSM0187AJZZ	V	Main Chassis Ass'y (AH975W, AH990A/W)	AQ
6	LHLDZA049WJZZ	V	Loading Motor Block	AD
7	LPOLM0085GEZZ	J	Supply Pole Base Ass'y	AF
8	LPOLM0086GEZZ	J	Take-up Pole Base Ass'y	ΑF
9	MLEVF0544AJZZ	V	Tension Arm Ass'y	ΑE
10	MARMP0061AJZZ	V	Loading Arm Take-up	AC
11	MARMP0062AJZZ	٧	Loading Arm Supply	AC
12	MLEVF0545GEZZ	J	Pinch Roller Lever Ass'y	AM
13	NBRGP0031AJZZ	V	Pinch Guide Bearing	AB
16	LANGFA008WJFW	V V	A/C Head Plate	AD
17 18	LHLDW1895AJZZ MLEVP0347AJZZ	V	A/C Head FFC Holder Pinch Double Action Leve	AB
19	MLEVP0347AJZZ	V	Reverse Guide Lever Ass	
20	MLEVP0342AJZZ	V	Loading Link Take-up	AB
21	MLEVP0343AJZZ	V	Loading Link Supply	AB
23	MLEVP0346AJZZ	V	Clutch Lever	AC
24	MLEVP0348AJZZ	V	Supply Main Brake	AB
25	MLEVP0349AJZZ	V	Take-up Main Brake Ass'y	/AC
27	MSLiP0016AJZZ	V	Shifter	AD
28	MSPRD0210AJFJ	V	Reverse Guide Spring	AΒ
29	MSPRD0213AJFJ	V	Take-up Load Double	AB
30	MSPRD0214AJFJ	V	Action Spring Supply Load Double	AB
			Action Spring	
31	MSPRT0439AJFJ	V	Pinch Double Action Spring	
32	MSPRT0438AJFJ	V	Main Brake Spring	AB
33 34	MSPRT0416AJFJ NBLTK0069AJ00	V V	Tension Spring H-Reel Belt	AD AC
35	NDAiV1093AJ00	V	Reel Disk	AC
36	NGERW1082AJZZ	V	Worm Wheel Gear	AC
37	NGERH1344AJZZ	V	Master Cam	AD
38	NGERH1343AJZZ	V	Synchro Gear	AB
41	NGERH1345AJZZ	V	Pinch Drive Cam	AC
43	NGERH1299AJZZ	V	Reel Relay Gear	ΑE
44	NGERW1081AJZZ	V	Worm Gear	AB
45	NGERH1342AJZZ	V	Loading Connect Gear	AΒ
46	NiDR-0036AJZZ	V	Idler Ass'y	AD
48	NPLYV0173AJZZ	V	Limiter Pully Ass'y	AF
49	NROLP0131GEZZ	J	Guide Roller	AL
51	MSPRC0217AJFJ	V	Guide Roller Spring	AC
52 53	PREFL1025AJZZ QCNW-A245WJZZ	V V	Light Guide Drum Motor FFC	AC AE
55 55	QCNW-A247WJZZ	V	A/C Head FFC	AD
56	QPWBFB112WJZZ	V	A/C Head PWB	AC
58	RHEDTA001WJZZ	V	Full Erase Head	AH
59	RHEDUA001WJZZ	V	A/C Head Ass'y W/O AE	AP
60	RMOTMA001WJZZ	V	Loading Motor	AK
61	RMOTNA001WJZZ	V	Capstan Motor	AX
62	RMOTP1139GEZZ	J	Drum Drive Motor	ΑT
63	DDRMW0041TEX1	V	Upper and Lower Drum (A310X/NZ)	BF
63	DDRMW0043TEX2	٧	Upper and Lower Drum (H725X, H730X/NZ)	ВН
64	QCNW-A244WJZZ	V	Loading Motor Wire	AB
65	QBRSK0041GEZZ	J	Earth Brush Ass'y	AD
66	XBPSD26P04500	V	2.6P+4.5A(D/M)	AB
67	PGiDM0187AJZZ	V	Open Guide	AC
70 71	MSPRC0228AJFJ	V	Azimuth Spring	AB
71 72	MSPRC0224AJFJ LHLDW1894AJZZ	V V	Height Adjusting Spring R/T FFC Holder	AC AB
72 73	MLEVP0355AJZZ	V	Auto Head Cleaner	AC
	5500/1022	٠	The state of the s	0

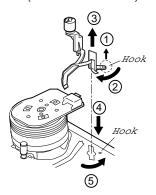
SCREW, NUTS AND WASHERS

201 202 203 204 205 208 209 210 211 212 213 214 215 216	XBPSD26P08000 LX-BZ3096GEFD LX-HZ3082GEZZ XJPSD26P06000 LX-RZ3015GEFJ XRESJ30-06000 XWHJZ31-03052 XWHJZ31-04052 XWHJZ31-06052 XWHJZ31-06052 XWHJZ31-07052 XWHJZ31-07052 XWHJZ31-08052 XHPSD26P05WS0 LX-WZ1041GE00	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	2.6P+8S A/C Head Tilt Adjusting Screw WSW 2.6+6(AC) 2.6+6S(CAPST) CS Washer E-3(MASTERCAM) Reel Washer 0.3 Reel Washer 0.4 Reel Washer 0.5 Reel Washer 0.6 Reel Washer 0.7 Reel Washer 0.7 Reel Washer 0.8 L/M Block Screw CW2.6-6-0.5 ARM	AA AA AB AA AC AC AC AC AC AC AC
		•		
219	LX-WZ1098GE00	J	CW2.6-4.7-0.5	AB
221	XBPSD26P06000	V	Azimuth Adjusting Screw	AA
222	XBPSD26P14000	V	A/C Head Screw	AA
224	XBPSD30P06000	V	3P+6S (DRM FIX)	AA

CASSETTE HOUSING CONTROL PARTS

300	CHLDX3083TEV1	V	Cassette Housing Cont Ass'v	rol AP
301	LANGF9661AJFW	V	Upper Plate	AD
302	LHLDX1049AJ00	V	Frame (L)	AD
303	LHLDX1050AJ00	V	Frame (R)	ΑE
304	LHLDX1051AJZZ	V	Holder (L)	AC
305	LHLDX1052AJZZ	V	Holder (R)	AC
306	MARMP0063AJZZ	V	Drive Arm (L)	AB
307	MARMP0064AJZZ	V	Drive Arm (R)	AC
308	MLEVP0350AJZZ	V	Drive Lever	AD
309	MLEVP0351AJZZ	V	Proof Lever	AC
310	MLEVP0352AJ00	V	Sensor Plate	AB
311	MLEVP0353AJ00	V	Open Lever	AB
312	MSLiF0079AJFW	V	Slider	AD
313	MSPRD0212AJFJ	V	Drive Arm Spring	AB
314	MSPRP0175AJFJ	V	Cassette Spring	ΑE
315	MSPRD0215AJFJ	V	Proof Lever Spring	AB
317	NSFTD0065AJFD	V	Main Shaft	AD

• Replacing the AHC (Auto Head Cleaner)



How to remove

Turn the H-AHC ass'y in the direction of (2), lifting the hook of the H-AHC ass'y in the direction of (1). When the hook is undone, pull out the H-AHC ass'y in the direction of (3).

How to install

Insert the H-AHC ass'y into the hole on the chassis in the direction of (4) and turn it in the direction of (5). Check that the chassis hook and hook of the H-AHC ass'y are engaged.

- * Caution when replacing
- Do not allow the AHC ass'y to contact with the drum.
 Do not contaminate the cleaner section of the AHC ass'y with grease, etc.

Ref. No. Part No. ★ Description Code Ref. No. Part No. ★ Description Code

CABINET PARTS

600	GCABA3169AJSW	٧	Top Cabinet (A310X/NZ, H725X)	AN
600	CCABA3168TEV4	V	Top Cabinet Ass'y (H730X/NZ)	AS
601	GCABB1253AJNA	٧	Main Frame (A310X/NZ, H725X)	AN
601	GCABB1252AJNB	V	Main Frame (H730X/NZ)	AP
602	GCOVA2229AJZZ	V	Antenna Terminal Cover (A310X/NZ)	AC
602	GCOVAA007WJZZ	V	Antenna Terminal Cover (H725X)	AC
602	GCOVAA104WJZZ	V	Antenna Terminal Cover (H730X/NZ)	AD
603	XHPSD30P06WS0	V	Screw (Chassis)	AA
604	LANGK0261AJFW	V	Top Cabinet Fix Angle (A310X/NZ, H725X)	AC
604	LANGK0253AJFW	V	Top Cabinet Fix Angle (H730X/NZ)	AC
605	XEPSD30P14XS0	V	Screw (Panel/Mecha)	AB
606	LX-HZ3047GEFF	V	Screw (Top Cabinet)	AA
607	XEBSD30P12000	V	Screw (Ant. Cover)	AA
608	LHLDZ2185AJ00	V	Sensor LED Holder	AB
609	PGUMS0026AJZZ	V	Foot Cushion	AB
610	TLABM4652AJZZ	V	Model Label (A310NZ)	AC
610	TLABM4651AJZZ	V	Model Label (A310X)	AC
610	TLABM4653AJZZ	V	Model Label (H725X)	AC
610	TLABMA100WJZZ	V	Model Label (H730NZ)	AC
610	TLABMA099WJZZ	V	Model Label (H730X)	AC
611	LHLDZ2184AJZZ	V	LCD Holder	AC
612	XHPSD26P06WS0	V	Screw (Cassecon)	AA
613	PSLDM4594AJFW	V	H/A Shield	AD
614	QEARPA006WJFW	V	Earth Plate	AD

FRONT PANEL PARTS

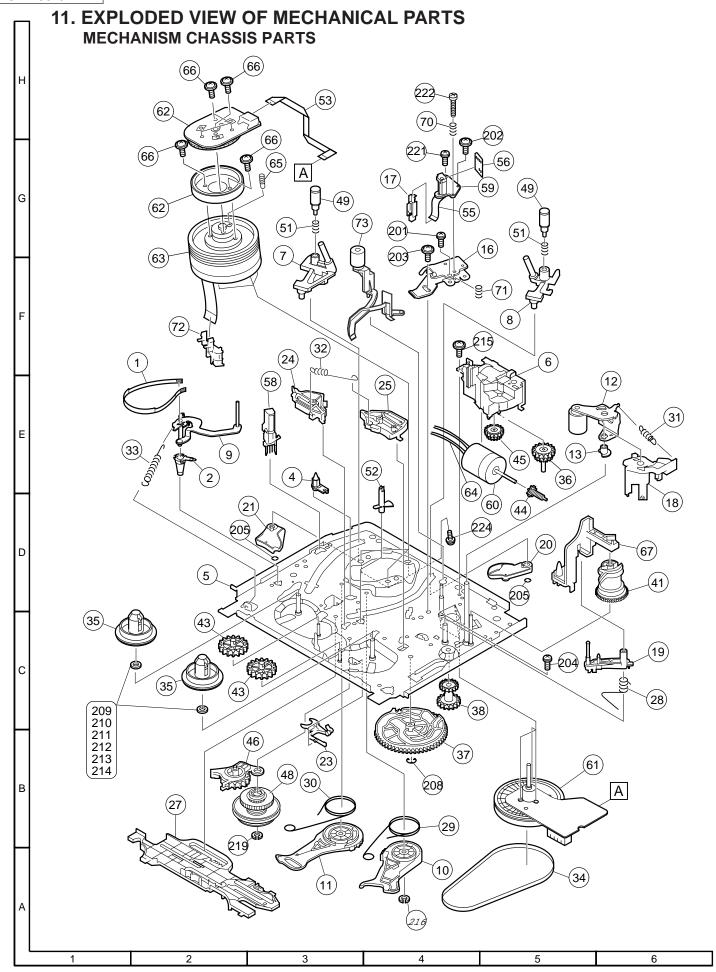
500	CPNLC3060TEV1	V	Front Panel Ass'y(A310X)	AS
500	CPNLC3061TEV1	V	Front Panel Ass'y(A310NZ)	AS
500	CPNLC3062TEV1	V	Front Panel Ass'y(H725X)	AS
500	CPNLCA046TEV1	V	Front Panel Ass'y(H730X)	
500	CPNLCA047TEV1	V	Front Panel Ass'y(H730NZ)	ΑT
500-1	I	ror	nt Panel —	
500-2	GCOVA2217AJZZ	V	REC LED Cover(H730X/NZ) AB
500-3	HDECQ2492AJSA	V	Cassette Flap (A310X/NZ)AE
500-3	HDECQ2494AJSA	V	Cassette Flap (H725X)	ΑE
500-3	HDECQA083WJSA	V	Cassette Flap (H730X)	ΑE
500-3	HDECQA086WJSA	V	Cassette Flap (H730NZ)	ΑE
500-4	HDECQ2493AJSA	V	Window Dec.	ΑE
			(A310X/NZ, H725X)	
500-4	HDECQA084WJSA	V	Front Dec. (H730X/NZ)	ΑE
500-5	HiNDP2237AJSC	V	LCD Indication Plate	AD
			(A310X/NZ, H725X)	
500-5	HiNDPA018WJSA	V	LCD Indication Plate	AD
			(H730X/NZ)	
500-6	GCOVA2214AJZZ	V	R/C Cover	AC
500-7	MSPRD0105AJFJ	V	Cassette Flap Spring	AB
501	JBTN-3158AJSA	V	Button, PLAY/STOP	AC
			(H730X/NZ)	
501	JBTN-3159AJSA	V	Button, PLAY/STOP	AC
			(A310X/NZ, H725X)	
502	JBTN-3162AJSA	V	Button, FF/REW	AC
			(A310X/NZ, H725X)	

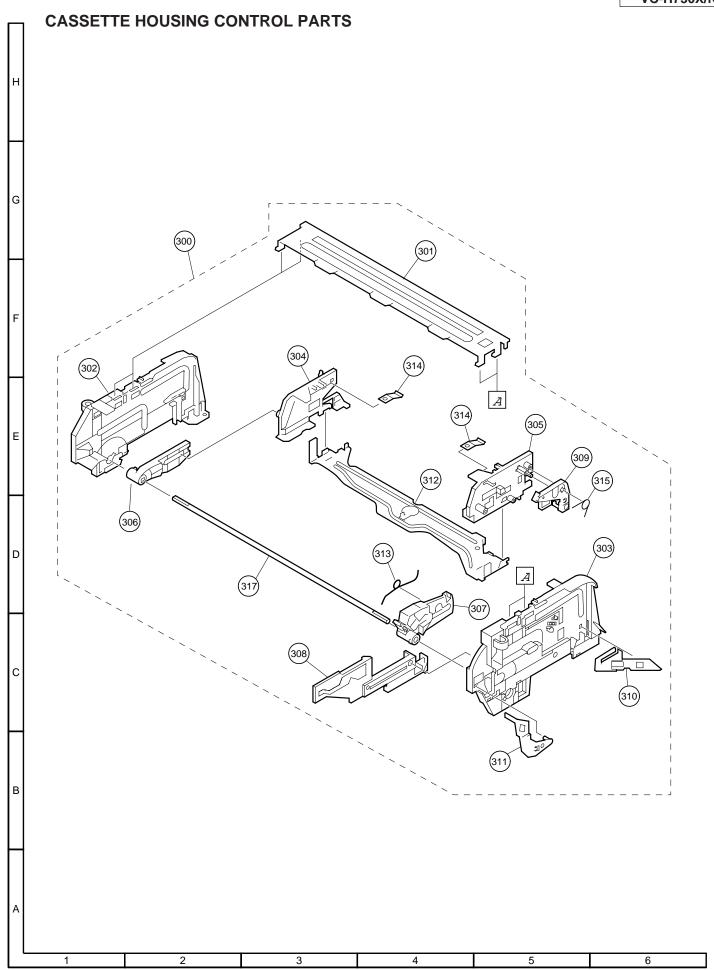
SUPPLIED ACCESSORIES

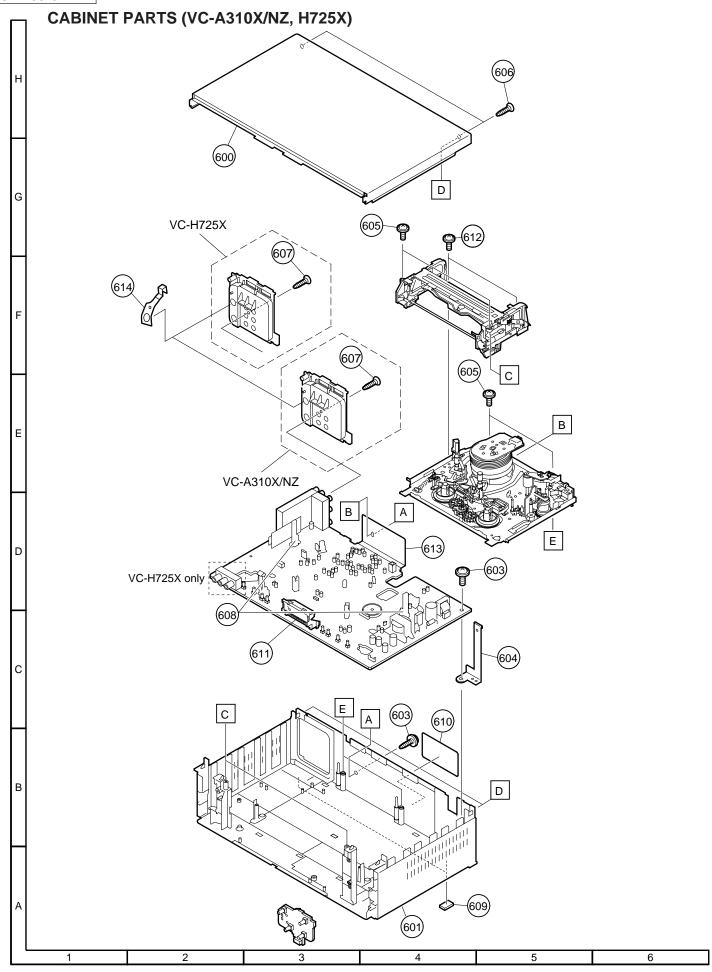
QCNW-8379AJZZ		75 ohm Coaxial Cable	AF
RRMCG1196AJSA	V	Infrared Remote Control Unit (H730X/NZ)	AV
RRMCG1206AJSA	V	Infrared Remote Control Unit (A310X/NZ, H725X)	AS
TiNS-A033WJZZ	V	Operation Manual (A310X/NZ)	AF
TiNS-A035WJZZ	V	Operation Manual (H725X)	AF
TiNS-A036WJZZ	V	Operation Manual (H730X/NZ)	AF

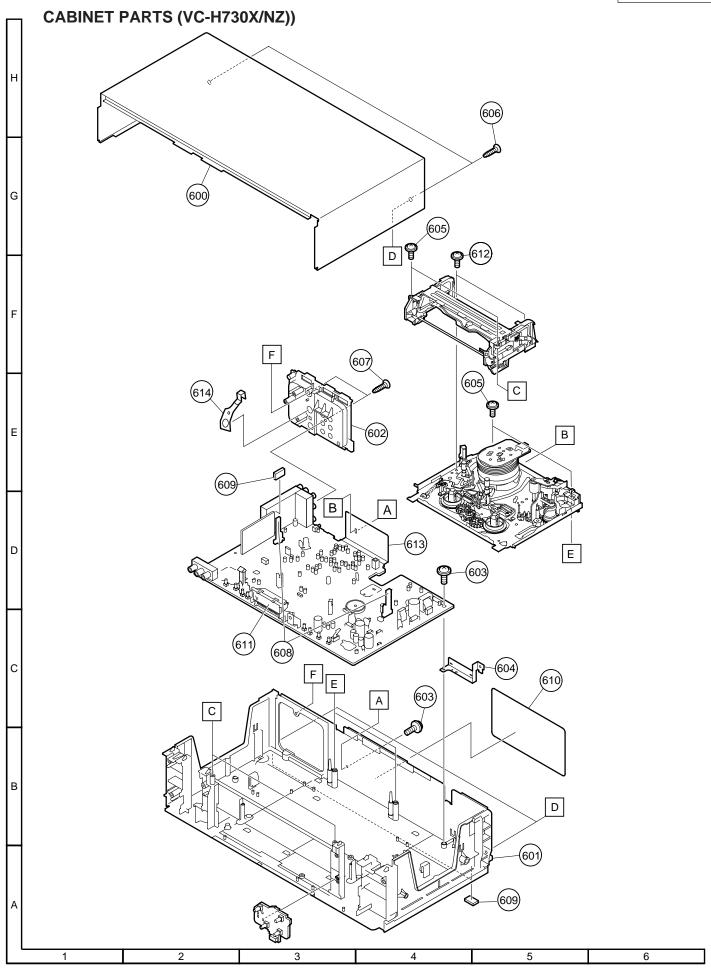
PACKING PARTS (NOT REPLACEMENT ITEM)

SPAKC5700AJZZ	-	Packing Case (H725X)	_
SPAKCA141WJZZ	-	Packing Case (H730X)	_
SPAKCA142WJZZ	-	Packing Case (H730NZ)	_
SPAKCA368WJZZ	-	Packing Case (A310X)	_
SPAKCA369WJZZ	-	Packing Case (A310NZ)	_
SPAKXA014WJZZ	-	Packing Foam (H730X/NZ	<u>Z</u>)—
SPAKXA035WJZZ	-	Packing Foam (A310X/NZ	<u>'</u> ,—
		H725X)	
TLABV0182AJZZ	-	Bar Code Label	_
SPAKP0114AJZZ	-	Foam Bag	_

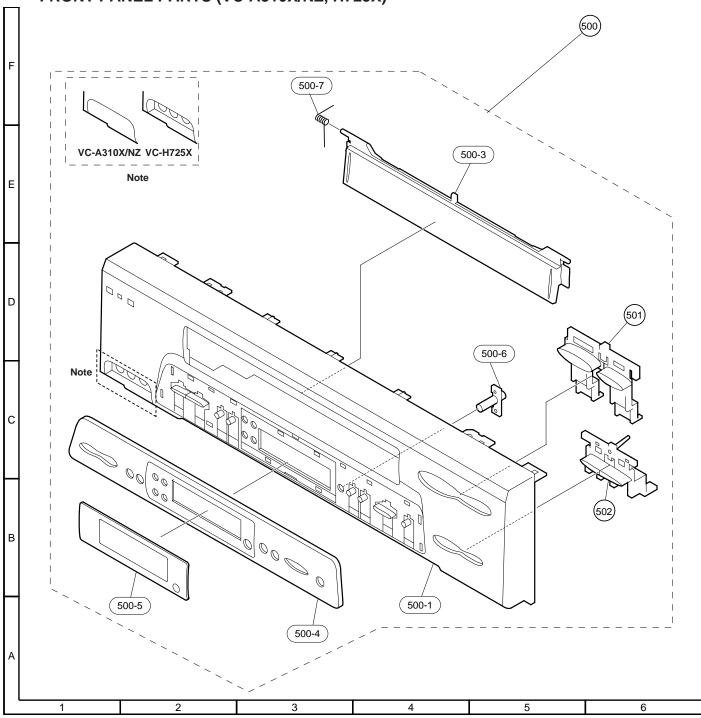




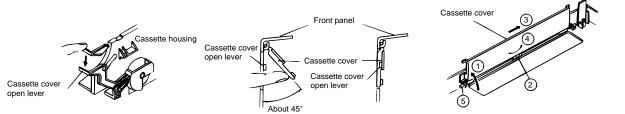




FRONT PANEL PARTS (VC-A310X/NZ, H725X)



PRECAUTION ON FRONT PANEL SET-UP



Before attaching the front panel in position, make sure that the cassette cover open lever is in its right place (lower-most). If it is out of position, push it down with a finger.

Keep the cassette over about 45° open and make sure that the cassette cover open lever is between the front panel and the cassette cover. Now fix the front panel in place.

Do not mount the front panel with the cassette cover tilted too open. Otherwise the cassette cover might wrongly run on the cassette housing. Removing the cassette compartment cover. ① Open the cassette compartment cover

- fully.

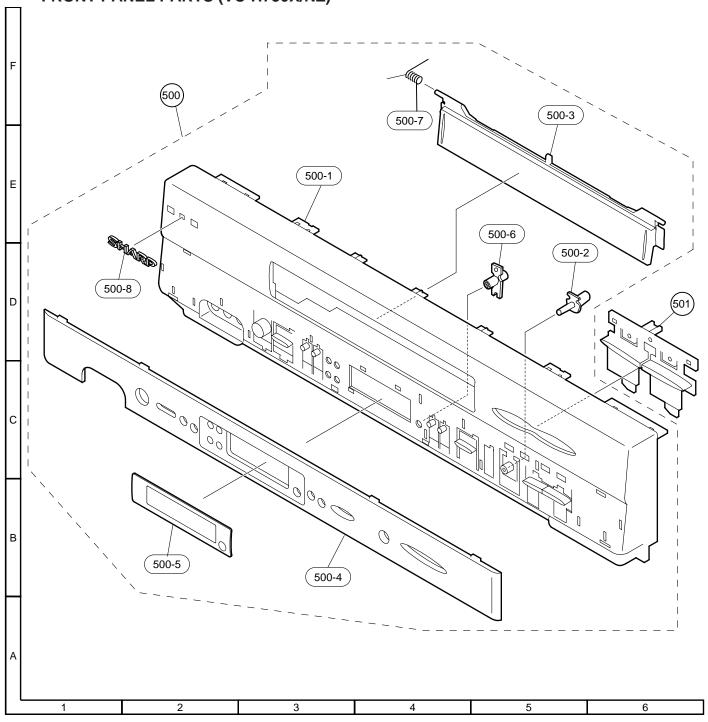
 ② Remove the center positioner.

 ③ Slide the cover to the right.

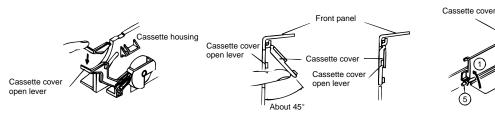
 ④ Slightly bend the cover.

- 5 Draw out the left-side rod.

FRONT PANEL PARTS (VC-H730X/NZ)



PRECAUTION ON FRONT PANEL SET-UP



Before attaching the front panel in position, make sure that the cassette cover open lever is in its right place (lower-most). If it is out of position, push it down with a finger.

Keep the cassette over about 45° open and make sure that the cassette cover open lever is between the front panel and the cassette cover. Now fix the front panel in place.

Do not mount the front panel with the cassette cover tilted too open. Otherwise the cassette cover might wrongly run on the cassette housing. Removing the cassette compartment cover.

① Open the cassette compartment cover

- fully.

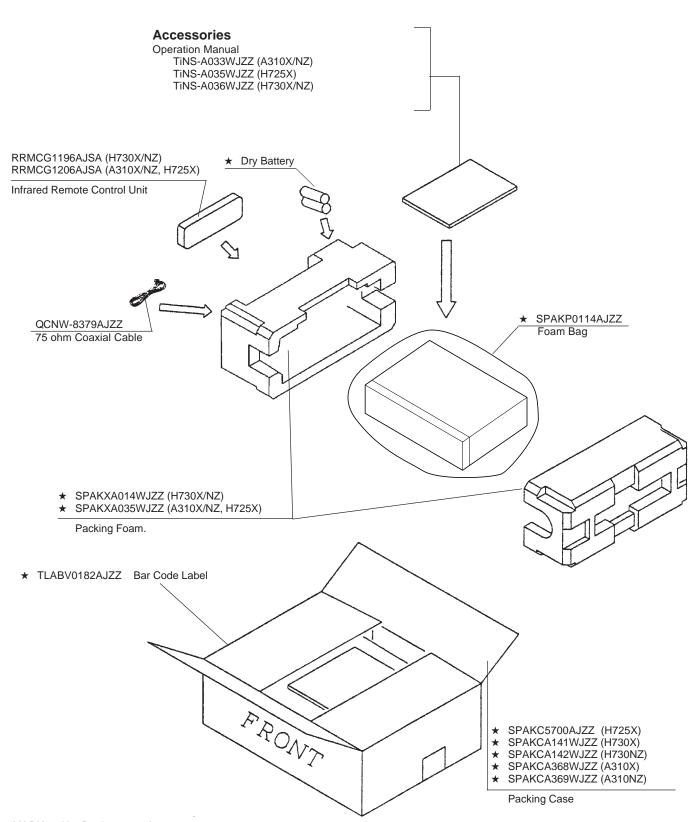
 ② Remove the center positioner.

 ③ Slide the cover to the right.

 ④ Slightly bend the cover.

- ⑤ Draw out the left-side rod.

12. PACKING OF THE SET



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